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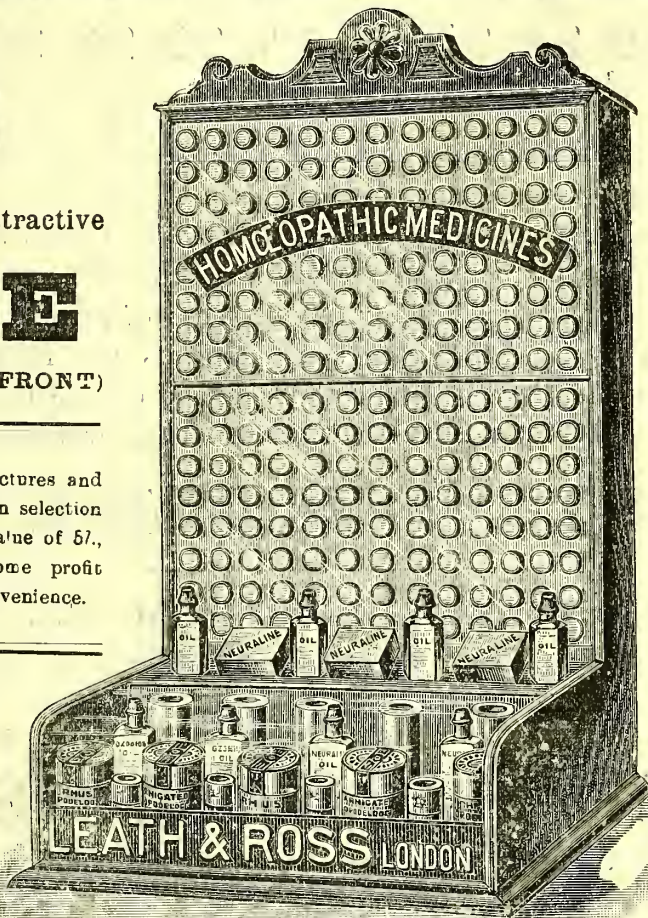
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9d. size, 2/9,,

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When ordering, kindly say if the Case is required to open back or front.

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THE
**CHEMISTS', DRUGGISTS', & ALLIED TRADES
EXHIBITION,**

TO BE HELD AT

**THE ROYAL AGRICULTURAL HALL, LONDON,
APRIL 22, 24, 25, 26, 27, 28, 29, 30, 1893.**

THE idea of holding an Exhibition and Market for these Trades, while it is distinctly novel as applied to them, promises success from the support already vouchsafed to it by the leading houses of the Trade, and by the extent and variety of the articles to be shown. The patronage of the Medical Profession and of the Public is likely to still further assist the undertaking. A first list of patrons will be published at the beginning of the year, and future announcements will reveal many striking novelties which will induce many visitors, both inside and outside the Trades, to take a practical interest in the Exhibition. There will be a

CHEMISTS' WELCOME CLUB

CHEAP TRAINS WILL RUN FROM ALL PARTS.

(FOR FURTHER PARTICULARS SEE HANDBILLS.)

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HOUSEHOLD REQUISITES,

A separate Department, in which Special Terms and Conditions are made.

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CAN YOU BUY BETTER?

PRICE
QUALITY
FINISH

Fig. 1.



CHEST PROTECTORS.

Felt, as Fig. 1, scarlet, Best Quality—

Nos.	0	1	2	3	4	5
Size	$8\frac{1}{2} \times 7\frac{1}{4}$	$9\frac{1}{2} \times 8\frac{1}{4}$	$10\frac{3}{4} \times 9\frac{3}{4}$	$11\frac{3}{4} \times 10\frac{3}{4}$	$13\frac{1}{2} \times 12$	$15\frac{1}{2} \times 14$
Per doz.	4/9	6/	7/9	9/3	11/	16/6

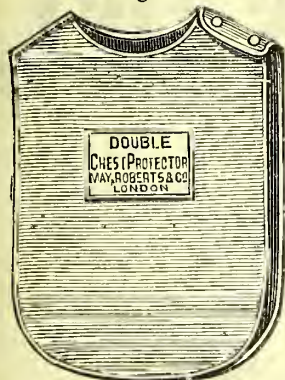
Felt, Grey (Natural Wool), as Fig. 1—

Nos.	0	1	2	3	4
Size	$8\frac{1}{2} \times 7\frac{1}{4}$	$9\frac{1}{2} \times 8\frac{1}{4}$	$10\frac{3}{4} \times 9\frac{3}{4}$	$11\frac{3}{4} \times 10\frac{3}{4}$	$13\frac{1}{2} \times 12$
Per doz.	4/9	6/	7/9	9/3	11/

Flannel, as Fig. 1, lined with Chamois leather—

Nos.	0	1	2	3
Size	$8\frac{1}{2} \times 7\frac{1}{4}$	$9\frac{1}{2} \times 8\frac{1}{4}$	$10\frac{3}{4} \times 9\frac{3}{4}$	$11\frac{3}{4} \times 10\frac{3}{4}$
Per doz.	4/6	5/6	8/9	11/
Nos.	4	5		
Size	$13\frac{1}{2} \times 12$	$15\frac{1}{2} \times 13\frac{3}{4}$		
Per doz.	14/	18/		

Fig. 2.



LUNG PROTECTORS.

Felt, as Fig. 2, double, for the chest and back, scarlet, Best Quality—

Nos.	1	2	3	4	5
Size	11×8	$12 \times 9\frac{1}{2}$	$13\frac{1}{2} \times 10\frac{1}{2}$	$15 \times 11\frac{1}{2}$	$16\frac{1}{2} \times 14$
Per doz.	15/	18/	22/	26/	38/

Felt, Grey (Natural Wool), as Fig. 2—

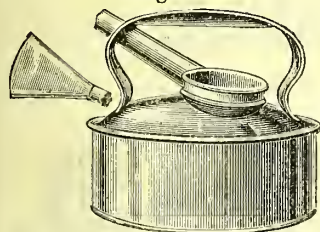
Nos.	1	2	3	4
Size	11×8	$12 \times 9\frac{1}{2}$	$13\frac{1}{2} \times 11\frac{1}{2}$	$16\frac{1}{2} \times 14$
Per doz.	15/	18/	22/	28/

Flannel, as Fig. 2, for chest and back, lined with Chamois leather—

Nos.	1	2	3	4	5
Size	$9\frac{1}{2} \times 8$	$11\frac{1}{2} \times 9\frac{1}{2}$	13×11	$14\frac{1}{2} \times 12\frac{1}{2}$	$16\frac{1}{2} \times 14$
Per doz.	13/	17/6	22/	29/	37/

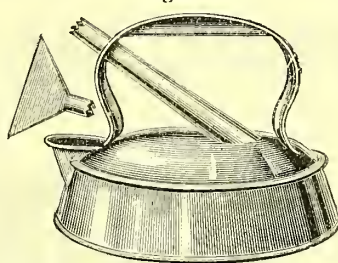
BRONCHITIS KETTLES.

Fig. 1.



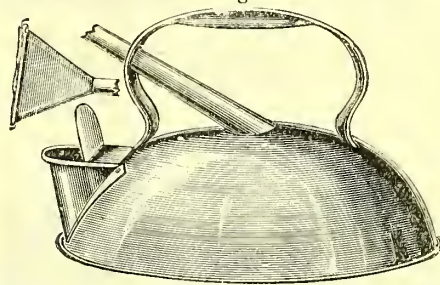
Tin, round, 7 inch.
Fig. 1, each 1/3.

Fig. 2.



Tin, round, 9 inch, best.
Fig. 2, each 2/4.

Fig. 3.



Tin, best quality, oval, 10-inch, as Fig. 3, each 6/
Tin, " " 12-inch, " " 7/

£1 worth, assorted, of the above, 5 % discount.

Carriage paid on £5 worth, and 5 % discount.

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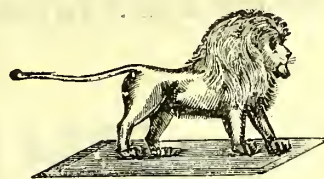
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Notice is hereby given that all those infringing my rights, either by preparing or selling spurious Ointment, Pills, or Nerve Tonic, will be at once proceeded against.

H. J. DEACON,

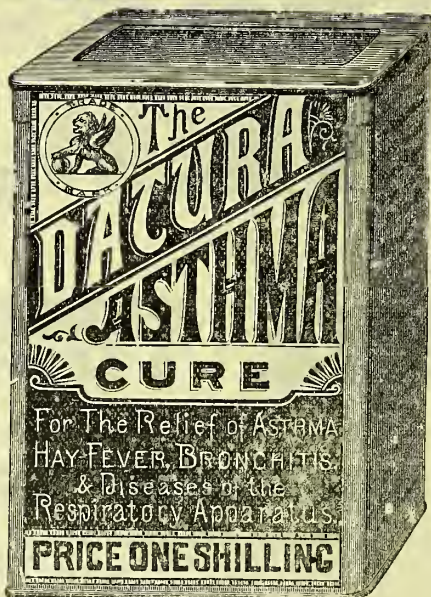
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November 14th, 1892.

COMMENCE THE SEASON BY STOCKING THE "DATURA" ASTHMA CURE.

A splendid line at a reasonable price. Equal, if not superior, to the more expensive remedies. Guaranteed to give every satisfaction, and where well placed to produce a certain sale and steady trade.

PRICE—1/- Tins, 8/-
per dozen.



This is undoubtedly the speciality of the Winter Season. It is well packed, and the Showcards and Pamphlets sent with all orders are of a high-class character. Once the "Asthma Cure" is sold it is its own advertisement.

PRICE—1/- Tins, 8/-
per dozen.

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Hardly a week goes by that we do not find it necessary to institute legal proceedings against some chemist on account of imitations of "Vinolia" Preparations which he has introduced. Up to the present time, we have not published a single one of these gentlemen, though we hold documents signed by them which an ordinary individual with any self-respect would not care to sign. They have had to sign these documents expressing regret, and undertaking not to imitate us in future, as the best and shortest way out of a bad matter. Further, they have had to pay heavy costs. In spite of the lenient way in which we have treated these unconscionable imitators, they all act afterward as if they had been the victims of what one of these gentlemen calls "an iniquitous persecution," and talk as if it were we who had wronged them instead of they who had wronged us.

We have now to deal with a more serious matter than has previously arisen in our business. We find that certain chemists, some of them doing business in respectable quarters, are "faking up" various mixtures, and supplying them in prescriptions where "Vinolia" is ordered.

We have not yet taken any proceedings, but do not propose to treat this matter of substitution lightly, and every single man we catch substituting various mixtures where "Vinolia" is ordered, we will press to the very fullest extent the law allows.

Those who furnish us with sufficient information to take legal proceedings will be appropriately rewarded by us, and all damages we obtain shall also be handed to our informants, whose name shall be kept absolutely secret unless otherwise arranged.

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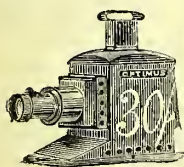
MAGIC

"OPTIMUS"

LANTERNS.

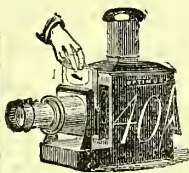
Each Magic Lantern is efficient for Exhibitions. The Lens gives crisp definition, being a superior Achromatic, Photographic Combination, with rack and pinion. It is fitted to a telescopic lengthening tube, so gaining increased focal accommodation. The Condenser is composed of two plano-convex lenses of four inches diameter. The refrugent lamp has three wicks (or four wicks 2s. extra), yielding a brilliantly illuminated picture. Each is complete in box.

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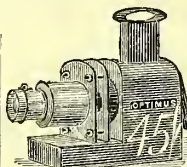
Japanned Metal.

30/.

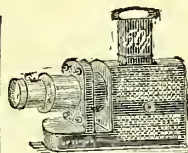


Student's Lantern (to take demonstrating tank) finished Brass Sliding Tubes. 40/.

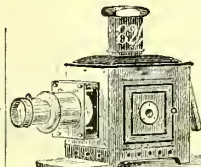
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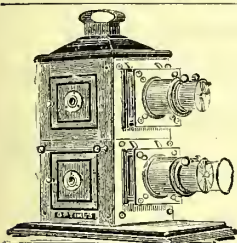
Russian Iron Body, Brass Sliding Tubes. 45/.



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2 Panelled outside Body, Sliding Stages, & Doors, Brass Mahogany Sliding Tubes 82/.



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The Top Lantern may be used separately with Oil Lamp.

Seasoned Mahogany Body, 4 Panelled Doors, and Moulded Foot, picked out with black, Achromatic Photographic Front Lenses, Compound Condensers, all Brass Stages £8 8

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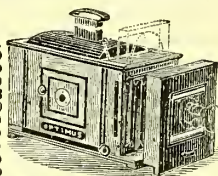
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This Apparatus comprises superior Mahogany Body Lantern and Long Bellows Camera adjusted by rack and pinion. The Lantern is fitted with powerful Refrugal Lamp, with 3 wicks, giving brilliant illumination. Compound Condensers.

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CONDENSEE.	s. d.	If with Russian Iron instead of Mahogany Body.	s. d.
5-in., no front lens	100 0	5-in., no lens	75 0
5-in., with "	127 0	5-in., and "	102 0
6-in., no "	133 0	6-in., no "	87 0
6-in., with "	151 0	6-in., and "	115 3
7-in., no "	155 0	7-in., no "	110 0
7-in., with "	173 6	7-in., and "	137 9
8-in., " "	256 0	8-in., no "	160 0
9-in., " "	280 0	9-in., " "	250 0
10-in., " "	260 0	10-in., " "	285 0
12-in., " "	530 0	12-in., " "	400 0



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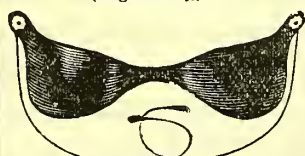


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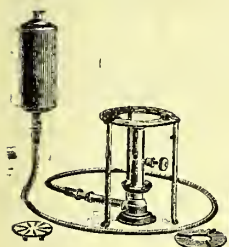
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3s. 6d. for fifty words; 6d. for every 10 words beyond.

PENZANCE.—Retail and Dispensing Business; splendid central position; bold, handsome shop; very low price to prompt purchaser. Apply, Izard, 14 Queen Street, Cheapside, E.C.

NORFOLK.—Genuine Country Retail; no opposition; good prices; first-class connection; returns over £1,300; proprietor retiring. For particulars apply to Smith & Sons, Wholesale Druggists, 44, 46, and 48 Magdalen Street, Norwich.

LIGHT Retail, Dispensing, and Prescribing Business in country town in Kent; returns £500; net profits £250; low rent; good house and large garden; cash £400. W. M., c/o Messrs. Hodgkinson, Treacher, & Clarke, 101 Whitecross Street, E.C.

SHROPSHIRE.—In small market town, Prescribing and Agricultural Business, returning about £400; rent £40; best position in town; fixtures nearly new; no reasonable offer refused; satisfactory reason for disposal. Apply, "Ophi," c/o Evans, Sons & Co., 56 Hanover Street, Liverpool.

WESTERN Suburb.—Ready-money Retail and Prescribing Business; shop well fitted and good stock; house with private entrance; returns over £300 and increasing; satisfactory reason for sale; no agents. "Robinson," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LANDPORT, Portsmouth.—An old-established ready-money Business; capable of immediate increase by a good Prescriber and Tooth extractor; good stock; rent and taxes low; house small but convenient. Apply, by letter only, W. H. G., 202 Villiers Road, Willesden Green, London, N.W.

IN one of the leading towns in the West of England.—A first-class Light Retail, Prescribing Business, with Wines and Spirits; returns have averaged £1,900 for last 3 years; handsomely fitted; good stock; large house; valuation only. Address, N. M., c/o Mr. Parkhouse, Wellington, Somerset.

£60 CASH for a nicely-fitted shop, situated in densely-populated good-class locality, and entirely unopposed; a good Prescriber or Dentist would do well; rare opportunity for energetic man with small capital; rent £23; owner retiring. Apply, in first instance, to "Chemist," Purley, Surrey.

CHESHIRE.—In best residential suburb of Liverpool; a high-class Dispensing and Retail Business; established over 30 years; valuable proprietary articles; returns over £1,000; handsome shop, modern dwelling-house; death of proprietor reason for disposal. Apply G. Howard, Post Restante, Liverpool.

BUSINESSES FOR DISPOSAL—Continued.

ORRIDGE & CO., 32 Ludgate Hill, will give full particulars of a small Cash Business in main road, populous district; rent £50; owing to ill-health, owner (who has held same seven years) will accept a fair offer.

£575—Home County (one hour's ride from London): an unopposed good-class Retail and Dispensing Business, in pretty market town; returns £740; net profit, after paying all expenses, £300; price £575; very nice residence, with handsome pharmacy. Apply, "Lupuli," c/o Messrs. Edwards & Son, 157 Queen Victoria Street, E.C.

SURREY.—Ready-money Chemist's; a genuine Retail and Prescribing Business; populous neighbourhood; shop well fitted and stocked; owner taking London business; convenient stable for horse and trap; price £150. Address, "Primus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR disposal, a small Country Business (North-east Lancashire), through ill-health; population 8,000; one other chemist; established 7 years; rent £22; grand opportunity for energetic young man who can prescribe and push own preparations, extract teeth, &c. Address, W., c/o J. Woolley, Soas & Co., Manchester.

PROMPT Disposal. Well fitted and stocked Pharmacy, doing increasing trade of a good and remunerative character; best position (corner) in main street of large town, South coast; worthy attention of good man; patents taboo; price about £650. "Jackstone," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BIRKDALE, Southport. For immediate disposal, on account of ill-health, genuine old-established Cash Drug, Prescribing, and Dispensing Business; well-fitted shop and store-rooms; splendid house, private entrance, large yard and gardens; price about £300. Address, "Sonth," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LIVERPOOL Suburbs, Princes Park district, thickly-populated neighbourhood. A first-class Retail and Dispensing Business; returns about £400; every opportunity for increase; shop splendidly stocked; price £550; rent low; owner taking country business. "Boulevard Pharmacy," 210 North Hill Street, Princes Road, Liverpool.

£250.—LONDON (few miles out).—Genuine small Business for sale, under exceptional circumstances; a good and improving opportunity for man with small capital; only requires to be seen; attractive shop, good house and garden; everything fresh and in good condition; lease; low rent. A. C., 63 Southborough Road, South Hackney, N.E.

NORTH WALES (Anglesea).—Prescribing and Dispensing; one of the best agricultural districts in North Wales; good house, commodious premises; low rent; price very moderate; knowledge of Welsh essential; no Chemist within a radius of 4 miles; exceptional opportunity for a young man. Apply, R. C. Griffith, Chemist, Port Dinorwig, near Bangor, N.W.

£120.—A Branch (unopposed) Business, situate between Dorking and Reading; light Retail and Dispensing trade; under management, and has been much neglected; rent £30; convenient 8-roomed house and garden; good opportunity for any accustomed to good-class trade. "Ferrum," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£600.—Proprietor, leaving the trade, will sell genuine real money Business, situated in good and improving position in Eastern suburb; convenient house; rent £55; long lease; returns about £600; applicants must command above amount or need not apply; no agents. Write, in first instance, to 242/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENUINE Mixed Business, with good mill connection in a populous increasing Lancashire town; no opposition near; returns over £800 per annum; rent £30; handsome corner shop with single-sheet plate-glass front; pleasant 7-roomed dwelling-house, also store-rooms, stable, and coach-house, if desired, at a rental of £10; lease at option, being property of vendor; price £700, or valuation. Apply, Thos. Tomlinson & Son, 9 New Cannon Street, Manchester.

OLD-ESTABLISHED Prescribing, Extracting, and Retail Cash Business, in Yorkshire town, for immediate disposal; several profitable specialties attached; premises commodious and in good position; returns £1,600; price to prompt cash purchaser, £850; rent £65; business is in good going order and well stocked; excellent opportunity for Prescriber with business abilities. Address, "Celsus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MESSRS. ANDROS & CO., Chemists' Transfer Agents, 62 Ship Street, Brighton, have the following Businesses for disposal:—Full: returns nearly £1,700; price £800. Yorks: low rent; price £750. Hants: Dental practice; price £400. Norfolk: old-established; exceptional opportunity; price £75. Hants: established 50 years; main street; price £600. Surrey: good house and shop; price £150. Midlands: death vacancy; old-established; price £90. For full particulars and orders to view, apply as above. Please state requirements.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

CHEMIST'S Business, in growing locality; Midlands or Yorks preferred. "Chemist," 19 Nottingham Road, Mansfield.

WANTED, an old-established Chemist's Business; advertiser is prepared with cash for a suitable concern; London or suburbs. Full particulars, in confidence, D. B., 32 Abercorn Place, N.W.

AN experienced Physician desires to hear of an opening for non-Dispensing practice; seaside preferred. Address, "M.D.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GOOD-CLASS Country Business, with good house and garden; Southern counties preferred; fullest particulars required, in strict confidence; cash ready; references if required. "Chemist," 35 Eckstein Road, Clapham Junction.

WANTED, a good-class Retail Business, returning £700 to £1,000; any locality except extreme North; must bear strictest investigation; cash paid on entering. Full particulars to "Venables," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a genuine Business in good position, and capable of increase; suburban, or near London; a bonus will be given for introduction to a suitable opening if accepted. Particulars, in confidence (letters only), A. P. S., c/o Mr. Ingram T. Gunn, 11 Grove Road, Mile End, E.

IMMEDIATELY, a good sound and reliable Retail and Dispensing Business, returning about £1,000 a year, or more; must have a good house, and bear strict investigation; advertiser will pay a fair price, cash down, to secure a good thing. "Minor," Ingleside, St. Alban's, Herts.

SALE BY TENDER.

CROYDON, SURREY.—Messrs. Berdoo & Co. are instructed to Sell by Tender the old-established Light Retail and Dispensing Business, situated No. 197 St. James's Road, West Croydon; the shop is a very handsome corner, well fitted and stocked; occupies a good position in a main road; 9-roomed house, with long garden attached; returns are £600 yearly, at very profitable prices, and there is a good sale of Proprietary articles; sole cause of sale, purchased another business west of England; the business offers a good opportunity to anyone desirous of investing £300 to £400 in a genuine concern; vendor, being desirous of taking possession of his new business, is willing to sacrifice the goodwill; we are therefore prepared to receive tenders either in lump sum or by valuation; tenders received up to Saturday morning, December 3. Forms and full particulars on application to Messrs. Berdoo & Co., 30 Jowry Street, Aldgate, London, E.C.

TENDER FOR DRUGGIST'S FITTINGS, &c.

FOR SALE by Tender, the complete Fixtures and Plant of a first-class Chemist's Shop, at 17 Rendezvous Street, Folkestone.

The principal items are:—
Dispensing Screen.
2 Large Upright Showcases, mahogany.
1 Toothbrush Showcase, fig. 2 Maw.
Nest of Drawers, 14-ft. run, with glass knobs and labels, as Maw's fig. 1, with Lockers under.
A Mahogany Window-enclosure, 18 ft. long, 3 ft. 4 in. high, and 2 ft. deep, with figured-glass doors and Lockers under.
3 Show Carboys, 55 in. high, pear-shape, fig. 1 Maw, with stands.
3 20 in. " " " "
2 Specie-jars, with stands, figs. 1 and 2 Maw. " "
About 300 1-lb. and 2-lb. gold-labelled Bottles.
About 3 doz. 4-lb. Blue Jars.
Tenders to be sent in not later than December 7 next, and the whole to be cleared by December 24 next.

The Vendors do not bind themselves to accept the highest or any Tender, but a reasonable offer will not be refused.

Applications for view, and full particulars to be made to the undersigned, to whom Tenders must be addressed.

SMITH & ATKINSON, Solicitors,
12 Alexandra Gardens, Folkestone.

FOR SALE.

CHEMIST'S FITTINGS.—For Sale, a full set of Chemist's Fittings (made by Drew & Cadman), consisting of 69 drawers and 4 cupboards, all in frames, with mahogany fronts, fitted with cut-glass mirrored knobs and plate-glass labels, all in first-class order. May be viewed, or particulars obtained, at 30 Haymarket, S.W.

FOR SALE, the Patent Rights, Plant, Appliances, and Stock of an article sold by all Chemists, out of which a net profit of £300 was made last year without advertising; anyone able to devote more time to its development can realise a fortune in a few years; price for everything £800. Messrs. Berdoo & Co., 30 Jowry Street, Aldgate, City.

ALL for £18, or separately at the prices named:—Large and imposing specie-jar on stand, total height 3 ft. 4 in., for £8s.; 3 swan-neck carboys, one 8-gallon and pair 6-gallon, with stands, rollers, and irons, 160s.; marble mortar (18 in.) and pestle, 25s.; drum-kieve, 60-hole, 6s.; wrought-iron roof-cutler, 13s.; 3-ring gas-burner, very powerful, 16s.; 2 Symon's patent tins with 4 compartments each, 40s.; plate-glass mirror about 8 ft. by 22 in., 30s.; mahogany double steps, 10s.; 4 mahogany doors, glazed, 30s.; 3 large door doors, glazed, 25s.; besides window-fittings and other articles; carriage and packing not included. To be seen at 160 Falcon Road, Clapham Junction.

FOR SALE—Continued.

CHEMIST'S Shop-fittings, Showcases, and Utensils of all descriptions, new and second-hand.—Chemists commencing, opening branches, or making alterations, can be fitted throughout immediately and save 25 per cent. by purchasing from our extensive stock; old fittings purchased or taken in exchange; estimates free. Natali, 40 Gray's Inn Road, Holborn, London.

TO be sold immediately, the fixtures and fittings of four first-class Chemists' Shops, including several ranges of mahogany-fronted drawers, fitted with glass labels; six massive mahogany dispensing-screens with embossed mirror in centre; ten mahogany bent-glass counter-cases, fitted with sliding trays and serving-shelf above; six mahogany counters, fitted with drawers; also a large quantity of wall-cases. To be sold at a vast sacrifice, wanting room. Edwards & Fothergill, Old Haymarket, Liverpool.

By Order of the Trustees for the Debenture-Holders.

CALLINGTON UNITED MINES (LIMITED).

(IN LIQUIDATION.)

THE Receiver for the Debenture-Holders is prepared to Sell by Private Treaty, in one or more Lots, the whole of the following Important Mining Properties, comprising Valuable Arsenic, Tin, Copper, and Lead Mines, situate near Callington (R.S.O.), Cornwall, distant 10 miles from Tavistock, on the London and South-Western Railway, and the same distance from Saltash, on the Great Western Railway.

1. Holmbush Mine.—Clear of water to bottom level—viz., 190 fathoms below adit.

2. Kelly Bray Mine.—Clear of water to 70-fathom level below adit. These properties are held under separate leases, dated the 17th March, 1891, direct from the Duchy of Cornwall, for a term of twenty-one years from the 1st January, 1891, at a rent of £20 per annum and payment of certain royalties.

3. South Kelly Bray Mine.—Not working, and practically a virgin mine. Held under a lease, dated the 28th April, 1882, for twenty-one years from 25th December, 1881, at a rent of £15 and the payment of certain royalties.

4. Redmoor Mine.—Clear of water to bottom level, 125 fathoms below adit. Held under a lease, dated the 28th April, 1882, for a period of twenty-one years from the 25th of December, 1881, at a rent of £30 per annum and the payment of certain royalties.

5. Greenhill Arsenic and Brick Works.—With a complete plant for Arsenic refining, cooperage, stores, &c. This Freehold property, containing some 14 acres, subject, however, to the payment of a small customary rent-charge of £8 5s., comprises:—(A) The Greenhill Arsenic Works, in thorough working order. (B) The Brick Works, with all necessary Machinery. (C) The Reservoir. (D) The Cottages.

6. Six Freehold Cottages and Plot of Building Land, situate close to the Holmbush and Kelly Bray adits, and within 200 to 300 yards from the Kelly Bray Railway Station.

All the above Mining Properties will be sold ready for immediate working, as they are all freed from water, and mining operations are still being carried on, but on a reduced scale.

They are connected with the Port of Calstock by the Mineral Line of the Plymouth, Devon, and South-Western Junction Railway, which in all probability will be extended to and become part of the London and South-Western Railway System. At Holmbush there are commodious Offices, with an excellent Dwelling-House in communication, and Two Cottages. At Redmoor there is also a Dwelling-House available for the Manager. The Mines produce Tin, Copper, Silver-Lead, and Arsenic.

The Plant and Machinery is all of the most complete character and in excellent condition.

Detailed particulars and an inventory of the Machinery may be had on application to Captain Bennett, Holmbush Mine, Callington (R.S.O.) Cornwall; or of Mr. P. A. Latbam, 15 St. Helen's Place, Bishopsgate Street London, E.C., or of

WILLIAM THEOBALD, C.A. (Theobald Brothers & Miall),
Receiver for Debenture-Holders,
23 St. Swithin's Lane, London, E.C.

SALE BY AUCTION.

In Bankruptcy. Re José Bareres.

NEW NORTH ROAD, ISLINGTON.—TO MANUFACTURERS, CIVIL ENGINEERS, METALLURGISTS, CHEMISTS, and OTHERS.

MR. R. WALTER WINGHAM has been favoured with instructions from W. H. Pannell, Esq., F.C.A., Trustee, to Sell by Auction, on the premises, 85 Arlington Street, New North Road, Islington, on Tuesday, December 6, 1892, at 1 o'clock precisely, the valuable Leases of the Wharf and Premises, having a frontage of 312 ft. on the Regent's Canal, with an average breadth of 42 ft., known as Union Wharf, 85 Arlington Street, with Workshops, Warehouse, Offices, Stabling, and other Buildings, all in good and substantial repair; held for terms having over 20 years unexpired at the moderate rentals of £300 per annum for the whole. With which will be included the excellent Machinery, Plant, and Stock, consisting of 3 Furnaces, a 20-ton Press Forge, and Drilling Machine, Slat-Tanks for making Autimony and Copper, Gas Engine by Ghee & Burt of Glasgow, Pulveriser, Crusher and Blower for Furnaces, 4 Volt Meters, Copper Still, a Faraday's Dynamo Machine, massive Tables with slate tops fitted for electricity, 13 Glass Chemical Cases, Oil Refiner, Boiler, Forge, and Drilling Machine, Iron Pacer Pan and Mixer, Casks of Olive and Cotton Oil, 20 tons of Creolite Black, 6 casks of Iron Ore, 1 ton of Quartz, 1 ton of Sand, 1 ton of Lead Ore, 1 ton of Manganese, 50 carboys of Acids, 2 tons of Carbon, and a large quantity of Chemicals, &c., &c.; also the Office Furniture. The whole to be submitted punctually at 1 o'clock, in 1 Lot, and if not sold, the Lease, Plant, Stock, and other effects will be put up in separate Lots as per catalogue. Particulars and conditions of sale and catalogue to be obtained upon the premises of Messrs. W. H. Pannell & Co., Chartered Accountants, 13 and 14 Baringhall Street, E.C.; A. G. Ditton, Esq., Solicitor, 11 Queen Victoria Street E.C.; Messrs. Nokes & Stanmer, Solicitors, 57 Basinghall St. E.C.; Henry Levy, Esq., Solicitor, 18 Surrey Street, Strand, W.C.; and of the Auctioneer, 2 St. George's Circus, S.E.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

ASSISTANT for Front Counter; early in December. County Drug Stores, Leamington.

QUALIFIED Assistant wanted. Apply, A. H. Ellithorne, 8 York Place, Bad's Road, Birkenhead.

WANTED, a Junior Invoice Clerk. Write, stating experience and salary expected, to R. Sumner & Co., Liverpool.

TO gentlemen studying for the Examination, a comfortable home offered for part services. 175 Oxbridge Road, London, W.

CURTIS & CO. require a thoroughly competent Assistant; must write a good hand. Send full particulars to W. Jameson, 48 Baker Street, W.

JUNIOR or Improver, by December 4th; indoors; comfortable home. Send references and photo (to be returned) to E. M. Stevens, Chemist, Dover.

WANTED, for the winter season, a young English Assistant Chemist. Please send photograph and terms, Giuseppe Tassarotti, Bordighera, Italy.

WANTED, a good, experienced Assistant for the Counter; 4 assistants kept; liberal terms to a suitable man. Shirliff & Co., 66 Goldhawk Road, W.

WANTED, Traveller, with connection, to push sale of first-class Perfume Extracts on commission. Letters to P. E., 24 Poste Restante, G.P.O., London.

WANTED, a Part-time Assistant; one reading for Major preferred. Apply personally, or by letter, enclosing photo, Ferguson, 20 High Street, Camden Town, N.W.

JUNIOR Assistant (indoors); about 20. State full particulars of age, height, experience, and salary required to A. J. Wing, Chemist, 69 Powis Street, Woolwich, S.E.

IMPROVER wanted, immediately, in a Light Retail and Dispensing business. Apply, with full particulars, and photo if convenient, to Wing, Pharmacist, Weston-super-Mare.

RELIABLE, steady man to count pills, make tinctures and other pharmaceutical preparations. Apply to Wm. Fox & Sons, 109 and 111 Bedford Green Road, London, N.E.

MANAGER wanted, for a Branch; must be single, and well recommended. Apply, with photo, stating age, height, and experience, to E. J. Kitson, City Drug Stores, Worcester.

A JUNIOR Assistant (indoors), for a Light Retail and Dispensing business; must have good references, state age, height, salary expected; understand Welsh preferred. E. P. Wynne, Aberystwyth.

MR. BAKER, Pharmaceutical Chemist, 174 Victoria Street, London, S.W., has a vacancy for an Assistant. With application please state age, height, salary, and experience, enclosing photo (to be returned).

WANTED, qualified Assistant (indoors); second week in December prox.; state age, general experience, with references, salary required; enclose photo. W. T. Cole & Son, 17 Mary Street, Weymouth.

IMMEDIATE.—Junior, in good Family and Agricultural business, with Messrs. W. & A. Gilbey's Agency; indoors; state height, experience, reference, and salary required. Charles Hobson & Son, Beverley.

ASSISTANT (indoors), Minor qualification, aged 22 or 23, wanted early for a good Retail and Dispensing business. Apply, stating salary and reference to S. T. Minonik, Pharmaceutical Chemist, Bishop's Stortford.

WANTED, a qualified Assistant, about 25 years of age, in a first-class West-end house, where several are kept. State age, height, and salary required (indoors) to "Caecilia," c/o Doerner & Sons, Mitre Square, Aldgate, E.C.

WANTED, on December 1st, a good Junior Assistant; one who has passed the Minor preferred, and must have had experience in Dispensing. Apply, personally or by letter, to P. Stacey, Pharmacist, High Street, Leamington, S.W.

WANTED, on December 17, for a first-class Family and Dispensing business, a Junior, about 21 years of age; unexceptionable references, and good handwriting; indoors. Padwick, Pharmaceutical Chemist, Redhill, Surrey.

IMMEDIATELY.—Good Junior Assistant (indoors); one well up in Dispensing and General Retail. Apply, personally if possible, or send full particulars of experience, salary required, &c., to W. G. Christman, 818 Holloway Road, N.

ASSISTANT wanted, for good-class business; a quick and accurate Dispenser. Also an Improver or Turnover Apprentice. Apply, stating age, height, salary, &c., with photo, to "Pharmacist," Keeble & Son, 101A Regent's Terrace, Bournemouth.

JUNIOR Assistant; one preparing for exam. preferred; ample time for study; board, lodging, and nominal salary; healthy locality in South Devon; an Improver or Turnover would be treated with. "Pharmacy," Advertiser Office, Newton Abbott.

ASSISTANT (indoors), for good country Retail and Dispensing; good Counterman, and obliging. Apply, stating age, salary, experience, height, and enclosing carte (to be returned), to John Gilling, Pharmaceutical Chemist, Saffron Walden.

SITUATIONS OPEN—Continued.

WANTED, by second week in December, a good Junior. References and full particulars, also carte if convenient, to D. Smith, Market Place, Stroud, Gloucester.

IMMEDIATELY, an Assistant, about 23, for Light Retail and Dispensing business (indoors); able to Extract Teeth. Apply, with full particulars, to C. Pretty, 235 North End Road, Waltham Green, S.W.

WANTED, at once, Dispenser; qualified; outdoors; hours 9 to 7; no Sunday duty. Apply by letter only, stating full particulars and salary required, to "Chemist," Haymarket Stores, 28 Haymarket, W.

WANTED, at once, a strong, active, and obliging young man; aged about 20; used to a General (Welsh) Country Chemist's business. Apply, giving reference and salary expected, to Owen I. Jones, Chemist by exam., Apothecaries' Hall, Llanrwst.

JUNIOR Assistant, for a Light Retail business; indoors; one only kept; must be trustworthy and industrious. Please state in first letter age, height, experience, salary required, and enclose carte (to be returned), A. Higgs, Chemist, Kingston, S.W.

ASSISTANT and Part Manager; country; salary £70 or £80; house and gas free; state if married, age, if qualified, how long in last situation; total life abstainer preferred. "Plumbago," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a responsible Assistant, of good address and experience, for a cash business; 3 kept; Sunday and holiday duty divided between 3. Apply, with usual particulars and salary required (indoors), to Blackham, 675 Holloway Road, Upper Holloway, N.

WANTED, for London district, a Youth (shorthand and type writer) accustomed to Chemical trade, and having had some office experience. Apply, stating experience and salary, to "Sapolo," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT Minor (indoors); not over 24 years; accustomed to good-class country business; quick and accurate Dispenser, writing good hand; 2 Assistants kept. Apply, stating age, height, experience, salary, and enclose photo, to John Rae, Chemist, Newmarket.

QUALIFIED Manager, to open new Branch in first-class neighbourhood; must be pushing Salesman, Tooth-extractor, good Dispenser, Prescriber, &c.; handsome pharmacy, with all modern appointments. Apply, with usual references, to Goodall's Drug Co., 25 Lomb Lane, Bradford.

IMPROVER wanted in Mixed Country business near Manchester; state age, height, experience, cause of leaving last situation, and salary required; must be willing, obliging, and energetic for brisk business. Send photo, if convenient, to J. Richardson, Chemist, Hadfield, Derbyshire.

WANTED, at once, energetic Junior; Churchman preferred, and total abstainer; must be capable of taking charge during principal's absence, of good address, and gentlemanly manners; only one kept. Apply, stating age, salary required, and references, to H. Clarke, 10 Cannon Street, Dover.

WANTED, immediately, for South Africa, a Laboratory Assistant; must have had good all-round experience, and be able to coat pills, and make all B.P. and other ordinary preparations; 3 years' engagement; passage paid out. Apply by letter, to 14, e/o Warner Bros., 131 Finsbury Pavement, E.C.

MANAGING Assistant required, for good-class pushing cash trade; trustworthy and competent; outdoors, and no Sunday duty; liberal terms and permanency for suitable man; state salary required, particulars of last two appointments, and all customary information. Timothy White, Chemist, Portsmouth.

WANTED, an Assistant accustomed to good-class Dispensing and Retail; aged about 24 or 25; good Dispenser and references indispensable; abstainer preferred; state experience, age, height, salary (indoors), references, and when disengaged, and send carte (to be returned). Haynes & Tame, Rosecombe, Bournemouth.

WANTED, at once, qualified Assistant; aged about 23; middle-class trade; must be thoroughly steady, passing, and good Counter-man, with some knowledge of Prescribing; must be well recommended from last employer; salary £50 (indoors); one seeking a permanency preferred. Apply, with photo, to Horton, Chemist, Aston Road, Birmingham.

PARIS—For a first-class business, where 5 are kept, a thoroughly competent Assistant seeking a permanency, of irreproachable character; must be good Salesman, tall, and conversant with the French language; liberal salary (outdoors); need not be qualified. Apply in person, or by letter (enclosing photo), to Messrs. Evans & Lescher, 60 Bartholomew Close, for particulars.

MANAGER, or Managing Assistant, wanted at once (indoors), in a large West-end cash Drug Store (9 assistants kept); must have first-class references, and experience of brisk Counter and Dispensing business; single, and seeking permanency. Apply, in first instance, stating fullest particulars, to X., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C. Also smart Junior, for Stock and Counter.

JUNIOR, for General Retail; salary £60 and commission (outdoors). Also qualified Assistant, to manage and develop Branch; salary £80 and commission (outdoors); must be accustomed to Extracting and Prescribing; also thoroughly steady and energetic; if with knowledge of photo requisites preferred. State age, height, experience &c., enclosing 2 last references, to J. Wharton, Chemist, Redcross Pharmacy, Grimsby.

ACTIVE Junior, indoors; aged about 21, for a suburban Light Retail and Dispensing business; abstainer preferred; time for study; no Sunday duty. Address, with full particulars and photo (if convenient), J. A. Jessop, Acoc's Green, near Birmingham.

IMMEDIATELY, or end of year, a smart, energetic Assistant (qualified); accustomed to a pushing cash business; must be thoroughly reliable, with indubitable references; 5 guineas monthly, with 6 guineas annual increase, and very comfortable, quiet quarters; near City. Apply, stating full particulars of past experience, with height and photo, to H. L., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

JUNIOR (20); 5 years' good experience. "Hypo," 190 Holloway Road, N.

JUNIOR; 8 years' experience; abstainer. Williams, 6 Garden Street, Preston.

JUNIOR or Improver; 3 years' experience. Colce, 51 Queen Street, Devonport.

ASSISTANT; disengaged; aged 22; 4½ years' experience. Eustace, Walthamstow.

JUNIOR; aged 21; 5 ft. 10 in.; good experience. F. A. C., 39 Rawling Street, Keighley.

MANAGER or Senior; experienced; good business man. M., 217 Milkwood Road, S.E.

MANAGER or Locum; qualified; disengaged. Perks, 35 Gladsmere Road, Stamford Hill.

JUNIOR (21); 3 years' experience; height 6 ft.; London. Barrett, Talley, Llanilo.

ASSISTANT (27); married; unqualified; 10 years' experience. H., 50 Nelson Road, Hastings.

ASSISTANT; Mixed; aged 32; 5½ years last situation; height 6 ft. B., "Arosia," Menai Bridge.

MANAGER or Locum; aged 33; qualified; abstainer. "Ohemious," 3 Woburn Place, Russell Square, W.

ASSISTANT (21½); London; first-class experience; best references. Nowell, Palace Road, East Molesey.

PART-TIME; qualified; experienced; reliable; reference; disengaged. "Chemist," 172 Caledonian Road, N.

TRAVELLER, calling upon Yorkshire Chemists and Grocers, is open for re-engagement. Burdett, Ossett.

AS Surgeon's Dispenser or otherwise, immediately; aged 29. M., 86 Dynevor Road, Stoke Newington.

ASSISTANT or Temporary (31); good experience; abstainer; disengaged. E., 13 Summer Road, Groydon.

JUNIOR (21) desires engagement in South; 5 ft. 6 in.; over 4 years' experience. A. Clark, 8 Holburn Street, Aberdeen.

AS Manager (qualified), in or near London; low salary; disengaged. "Chemist," 45 Adolphus Street, Deptford, London.

JUNIOR; 5 years' experience; good Retail and Dispensing; London preferred. Particulars to Owen, 452 Oxford Street, W.

SURGEON'S Assistant; Dispense, visit, and Midwifery; unqualified; married. A., 52 Elswick Road, Lewisham.

MANAGER or Senior; 23; Major qualification; excellent experience. Walker, 17 Eldon Street, C.-on-M., Manchester.

ASSISTANT (22½), outdoors; good references. "Zeuph," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR (23); abstainer; Wesleyan; references; West Riding preferred. Eustace, Woodbine, Milsbridge, Huddersfield.

MANAGER (outdoors, or reside on); qualified; disengaged. 105/15, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR (21); good Dispenser; London and country experience; North of England preferred. Ellis, St. Mary's Road, Doncaster.

COUNTER or Dispensing, with time for study in evening; Liverpool or Manchester preferred. K., 79 Lowther Street, Whitehaven.

MINOR; disengaged; permanency desired; good references; aged 25; outdoors or indoors. "Chemist," 29 Spott Road, Cardiff.

ASSISTANT or Dispenser; qualified; 7 years' experience; good references; height 5 ft. 4 in. Owen, 25 Union Square, Borough, S.E.

JUNIOR, 4 years' experience, aged 21, height 5 ft. 7 in., wishes situation in Light Retail and Dispensing business. "Cook," 1 Zoar, Forfar.

JUNIOR (21), 5 years' experience, requires situation in London or town where evening classes are held; easy hours. D., 100 Brompton Road, S.W.

DISPENSING Assistant to Surgeon; aged 23; varied experience; neat and accurate; can be well recommended. Norman, 8 Green Lanes, Penge, S.E.

SITUATIONS WANTED—Continued.

ASSISTANT; aged 25; 9 years' experience. Poulter, 3 Wyndham Street, W.

MANAGER, temporary; qualified; experienced; good references. Glover, Priores Street, Cheltenham.

MANAGER or Assistant; town or country; Prescribe, Extract, Dispense. James, 54 Rope Walk, Ipswich.

MANAGER, Dispenser, or Temporary; experienced Prescriber and Extractor; disengaged. M., 26 Argyle Square, W.C.

WHOLESALE, Wet or Dry; good experience. A. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMPROVER, or Junior, in first-class business; aged 19 years; height 6 feet; excellent references. H. N. L., 72 Archway Road, Highgate, N.

YOUNG man wants situation as Assistant; country and town experience. 246/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT or Dispenser; good experience; Hall qualification; outdoors preferred; London. "Caffene," Westminster College, London, S.E.

MANAGER or Senior; outdoors; qualified; pushing business preferred. "Senior," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT (outdoors); qualified; first-class experience; good references. 245/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR in good-class business; aged 22; height 5 ft. 8 in.; West-end and South Coast experience; good references. E. Field, 22 George Street, Stroud.

ASSISTANT; 12 years' London and country experience; knowledge of Photo graphy; good references. Q., 21 Westbourne Terrace Road, Bayswater.

DISENGAGED (24); tall; good experience; unqualified; moderate salary; excellent references; good Dispenser. "Lex," 26 Great Quebec Street, W.

DISPENSER to Surgeon or Chemist; aged 25; experienced, neat, accurate; abstainer; unqualified; West-end preferred. "Alpha," 182 Uxbridge Road, W.

MANAGER or Assistant; aged 24; Major; 9½ years' experience; outdoors preferred. 245/37, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER, to succeed in easy terms; capital £100; qualified; undeniable references. 244/4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; aged 31; disengaged; unqualified; London experience and Store trade; reference; abstainer. Address, "Tarax," 11 Willow Grove Road, Leeds.

YOUTH (17); 1½ year's experience in Chemist's Retail; seeks re-engagement (indoors); Turnover, Apprentice, or Improver. N., 81 Athol Street, Liverpool.

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WHOLESALE—Junior; outdoors; Wet or Dry department; good experience; previous Retail; 7 years' with last employer. W. O., 6 Lingham Street, Clapham, S.W.

ASSISTANT, qualified, as Dispenser or otherwise; excellent references; London preferred. 245/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, Situation in Drug Stores; good experience; aged 21; also references. Apply, "Union," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER as Senior; Major; in or about West-end preferred; highest references; experienced. 243/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; married; over 14 years' experience; good Dispenser, Prescriber, and Extractor; capital references. "Chemists," 21 Market Place, Middleton, Lancashire.

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BRANCH Manager or Assistant; aged 28; married; 12 years' experience; energetic; Prescriber, Extractor, Photography; highest references; near London preferred; disengaged. S. I. W., 5 Pommarin Road, Brockley.

MANAGER (26); Irish qualification; managing Dublin branch; good Prescriber and Extractor; disengaged in a fortnight; total abstainer; highest testimonials. 243/37, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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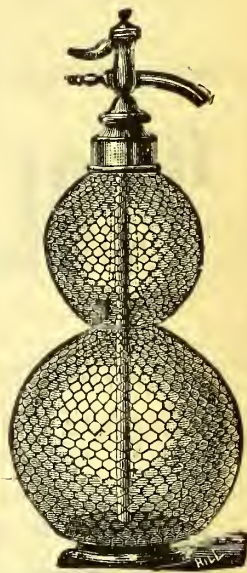
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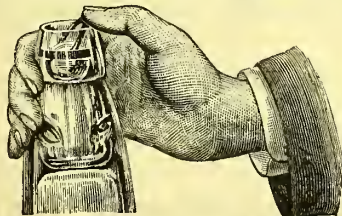
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School of Cookery, Crystal Palace, S.E.

January, 1883.

Mr. PETER TYRER,

Sir,—I have been using the "Borough" Ketchup, and am very pleased with it. Its flavour is excellent, both for all kinds of Savoury dishes and Soups; and I most certainly should advise every cook and housekeeper to use it, FOR I HAVE NEVER YET MET ITS EQUAL.

[2] MARIAN SMITHARD,

Lectress on Cookery.

DO NOT THROW MONEY AWAY
BUT WRITE FOR A FREE SAMPLE OF
Tyrer's "BOROUGH" Ketchup
SENT FREE TO ANY ADDRESS
SILVER MEDAL LONDON.

MANUFACTORY—70 Long Lane, Borough, LONDON, S.E.

CHIEF SCOTCH AGENCY—West Nile St., GLASGOW.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP,

SILVER MEDAL.

				Per gross.	Extra Quality.					Per gross.	Extra Quality.
1d. Sample Bottles, dozen parcels	..	..	..	6/3	6/3	1/2 Bottles, flat or round, reputed 1/2 pints	..	..	16/-	26/-
1d. " " 1/2-gross boxes	..	..	..	6/9	6/9	1/2 " " " 1/2 pints	..	..	26/-	38/-
" " dozen parcels	..	..	..	6/8	6/6	1 Pint "Imperial", round stoppered bottles	..	..	52/-	62/-
" " 1/2-gross boxes	..	..	..	7/-	9/-	12 1/2-Gallon Casks (casks free) ..	..	each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity & Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly 1/2 pint Imperial, 42/- per gross.

Sample Bottles at 7/- per Gross

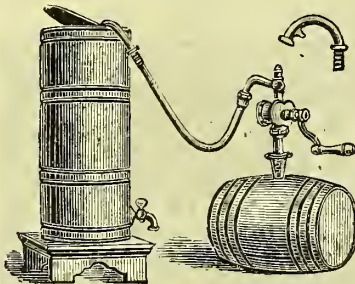
MONKEY BRAND.

Stock held in London, Bris'ol, and Dublin

Cases of 100 Large Bars	..	25/-
Cases of 60	..	15/-
Boxes of 48 Half Bars	..	6/3

If any difficulty in obtaining in any part of the world, write Sole London Consignees —

"FORDHAMS, LONDON."

ROTARY OIL PUMPS.

The Genuine American Gould Co.'s.

The prices below include Suction Pipe, Coupling Hook and Holder.

Revol's.	Disch'ge per min.	Each.
No. 1 60	10 gals.	45/- net
" 2 60	13 gals.	55/- net

THE "OUT-YOU-CUM" CORK EXTRACTOR.

If once tried, it will always be used by Chemists, Druggists, Apothecaries, Dispensers, Physicians, Ironmongers, Grocers, Oilmen, Publicans, and all who require to remove corks from inside of bottles. It will remove whole or broken corks, instantly and without trouble.

Price: 8/- dozen.

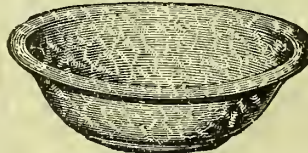
'Unbreakable Plaques.'

Superior to all others for painting up'n. In three shapes, 6, 8, 10 and 12 in. In White, Terra-Cotta, and Black. Being unbreakable are very saleable.
Retail 6d. to 1/6 each.

THE "INTELLIGENT" OIL CAN.**A WONDERFUL INVENTION.**

Patented throughout the World. An Oil Can that knows when the lamp or stove is full, and intelligently STOPS. This Can is absolutely safe for a child or a blind person to fill a lamp with in the dark. It not only stops itself, but it continuously sounds an alarm until the lamp is full.

1/2 gallon, 9/- per doz. : 1 gal. 11/- doz.

"UNBREAKABLE" BASINS.

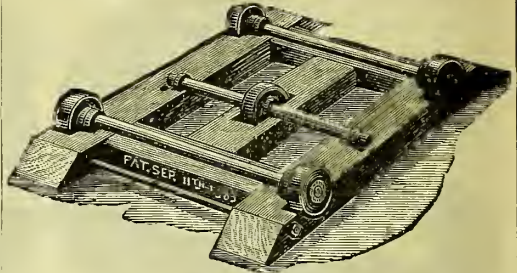
Per dozen	12 in.	13 in.	15 in.
	9/-	9/6	14/3

Assorted Colours.

NEW DISPLAY BOWLS.

Handsomely decorated, unbreakable.

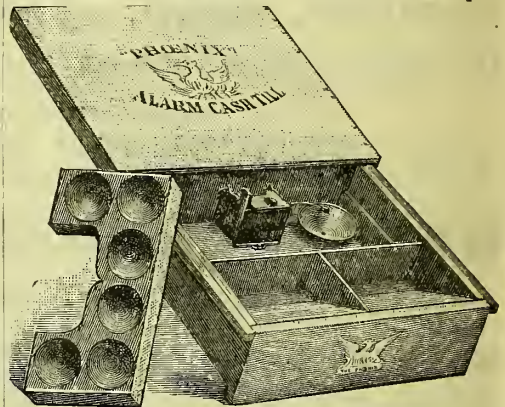
Two sizes, 10 in. 11/3; 13 in. 18/- per doz.
Plain Oak, 10 in. 9/-; 13 in. 15/-

"SAMSON" WAREHOUSE TRUCK.

A Cheap, Simple, Strong, and Efficient Improvement for removing Heavy Loads from place to place. By the adaptation of the Centre Rotating Wheels, the Load is readily run and steered into any desired position.

Carrying Capacity	Measurement.	Price each.
50 cwt.	36 in. by 24 in.	32/-
30 cwt.	32 in. by 16 in.	15/-
10 cwt.	24 in. by 16 in.	6/6

Further particulars upon application.

THE "PHOENIX" CASH TILL.

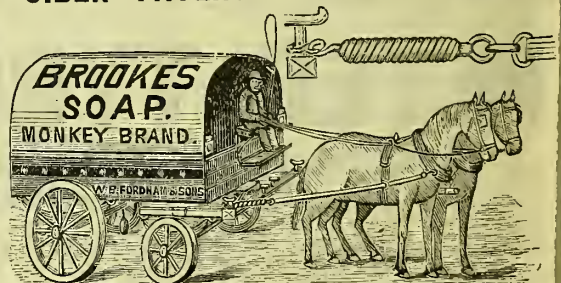
A Perfect day safe, and certain preventive against petty thefts. The act of closing locks the till. Net trade price, 12/6 each.

THE LIGHTNING STRING CUT.



To be worn on the first finger of the left hand. The wearer is able to cut twine or string from any position. If once used will become indispensable to Countermen, Warehousemen, and all users of strings and twines.

Made in 6 sizes, to retail 1/-
Price per dozen, 8/-
Sample by post (state size)
10 stamps.

THE "SIDEN" PATENT HORSE PROTECTORS

They absolutely increase the working power of the horse fully 25 per cent. They obviate all sudden jerks to the vehicle in passing over holes or impediments on the road. Price 12/- per pair.

W. B. FORDHAM & SONS, LTD., 36 TO 40 YORK ROAD, LONDON, N.
KING'S CROSS,

Telephone Number, 1852.

Telegraphic Address—CHEMICOUS LONDON.

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ACETIC ACID	ALMANACKS	BORAX	CAPSULES	CHEMICALS
Fuerst Bros.	Ford, Shapland & Co.	Howard & Sons	Denoual, J. (Medicinal)	Boehm, F.
Green, E. W., & Co.	Hildesheimer & Faulkner	Mack's Staron	Duncan, Flockhart & Co.	Boehring, C. F., & Sohns
Morris & Callard (Salts)	Silverlock, H.		Evans, Sons & Co.	Boulton, J., & Co. (Lim.)
ADVERTISING	Townsend, J.	BOTTLES	Hooper, B., & Co.	Brantwell, E. Co.
SPECIALITIES		Aire & Calder Bottle Co. (Lim.)	Mason, E. & Co.	Brunner, Mond & Co. (Lim.)
Baird Clock Co.	AMMONIA	Barnett & Foster	Richardson, John, & Co. (Leicester), Lim.	Fletcher Fletcher & Stevenson
Lawton, J. W.	May & Baker (Lim.)	Barradell, J. P., & Co.		Fuers Bros.
Bears, F. W.	White, A., & Sons	Barrett, K. H.		Goodall, Backhouse & Co.
AGRID & MINERALS	Woolley, Sons & Co.	Bratby & Hinchliffe (Lim.)		Greiff, R. W., & Co.
Apollinaris Co.	APPARATUS	Bush, H. W., & Co.		Harrington Bros.
Barnett & Foster	Hicks, J. J.	Evans, Sons & Co.	OSERA SACRADA	Hill, A. S., & Sons (Clark's)
Chemists' Abrated Waters	Olson, A.	Gilbertson, H., & Sons	Duncan, Flockhart & Co.	Hodgkinson, Treacher & Co.
Association (Lim.)	Orme, J., & Co. (Scientific)	Hearn, E. A., & Co.	Evans, Sons & Co.	Howards & Sons (Pharm.)
Bills & Son (Rutnam)	Perken, Son & Rayment	Isaacs & Co.	Ferris & Co. | Moss, J., & Co.	Levermore, A. H., & Co.
Hassall & Co. | Hay, W	Poths, H., & Co.	Johnsen & Jorgensen		Lofthouse & Saltmer
Hulsen, J., & Co.	BAKING POWDER	Kilner Bros.		Lorenz, H.
Idris & Co.	Goodall, Backhouse & Co.	Poths, H., & Co.	CATOR OIL	May & Baker (Lim.)
Ingram & Royle	BANDAGES	Sharp Brothers	Allen & Hanbury (Fuerst Bros)	Morris & Callard | Moss
Jewsbury & Brown	Bailey, W. H., & Son	Smiley, A. W.	Christy & Co. (Aroma) | Cam	Tyrer, T., & Co.
Johannis Spring (Lim.)	Robinson & Sons	Toogood, W.	Greiff, R. W., & Co.	Washington Chemical Co.
Mills & Co. (Bourne)	Schutze, F., & Co.	"W. Brand Bottles"	The Lofodan Cod Liver Oil Co.	White, A., & Sons
Schweppe, J., & Co.	Warne & Co.	Youlton, E.		Zimmermann, A. & M.
DITTO PLANT	BEESWAX	BOXES		
See SYRUPS and ESSENCES.	Boehm, F.	Anetin & Co. (Cardboard)		
Barnett & Foster	BICARB. SODA	Evans, Sons & Co.	CHECK TILLS	CHEST PROTECTORS
Bratby & Hinchliffe (Lim.)	Brunner, Mond & Co. (Lim.)	Farmington, J. W., & Co. (Lim.)	National Cash Till Co.	Chemists' Association (Lim.)
Guinet Freres	Howard & Son	Robinson & Sons	Patent Voucher Check Till Co. (Lim.)	Hockin, Wilson & Co.
Tyler, Hayward, & Co.	May & Baker (Lim.)	BRUSHES		Liverpool Patent Lint Co.
AGENCIES ABROAD		Evans, Sons & Co.	CHELIDE OF LIME	Lynch & Co.
Anglo-American Drug Co.	BEEMUTE PREP.	BUNSEN BURNERS	Government Sanitary Co.	Newbery, F., & Sons
Kempthorne, Prosser & Co.	Beaton, Squire & Franks	Berend & Co.	National Chemical Co.	Pattison, G., | Solport Bro.
Lennon, E. G., & Co. [(N.Z.)	Hewlett & Sons		CHLORODYNE	
Levy, Julius	Howard & Sons	BUTTER COIL, & Co.	Davenport, (Browne's)	CITRUS ACID
Peake, Allen & Co.	May & Baker (Lim.)	Boulton, J., & Co. (Lim.)	Towle, A. P., & Son	Hassall & Co. (Phospho)
Prosser, Taylor & Co.	Symes & Co. | Tyrer, T., & Co.	Crawshaw & Co.		COCAINE-HYDRO.
Roche, Tompsett & Co. (Mel-bourne)	White, Alfred, & Sons	Hatrick & Co. (Lim.)	CHLOROFORM, & Co.	Howards & Sons
Sharland & Co.	BOOKS	Oldfield, Pattinson & Co.	Duncan, Flockhart & Co.	COCA WINE
Soul, W. H., & Co.	Griffiths, W.	CAMPFOL	Greiff, R. W., & Co.	Armbricht, Nelson & Co.
ALKALOIDS	Gurney & Jackson	Fuerst Bros.	Mactarian, J. F., & Son	French Hygienic Soc.
Howard & Sons (Otheona)	Hargreaves, Dr., M.D.	Howard & Sons	Salomon & Co. (Lim.)	Stephen Smith & Co. (Hall's)
Smith, T. H., & Co.	Herschell, Dr., | Muter, Dr.	May & Baker (Lim.)	Smith, T. H., & Co.	COCOA & CHOCOLATE
			Wright, Layman & Umney	Cedbury Bros. | Christy & Co.
			Zimmermann, A. & M.	Lawwhite & Co.

CHRISTMAS NOVELTIES

Smith, Tom
OD-LIVER OIL
Allen & Hanburys
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Greiff, R. W., & Co.
Hill, A. S., & Son
Hoskin, Wilson & Co.
Tophouses & Salsmer
Moller, P.
Smith, T. J.
Robinson & Co.
The Lofodden Cod Liver Oil Co.
Woolley, Sons & Co.

COFFEE
Symington, T., & Co. (Coffee Essence)
White, Fairchild & Co.

COLPSABLE TUBES
Bette & Co.

COMPANY REGISTRATION AGENTS
Jordan & Sons

COMP. MEDICINES
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Fuerst Bros.

Cooper, B., & Co. () Leo & Co.
Leo & Co.
Lloyd, T. H., & Co.

CONCENT. LIQS.
Fletcher, Fletcher & Stevenson
Lloyd, T. H., & Co.
Wood, Cooper & Co.

CONFECTIONERY
Blyton, Astley & Co.
Crawshaw & Co.
Gibson, B., & Sons
Guest, T., & Co.

CORN CUBES
Fascall, J.
Southwell, O., & Co.
Warrick Brothers

COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons
Seabury & Johnson

ORSED LINSIED
Graham, W., & Co.
Mumford, S. G.

SENTIFRIONS
Beecham, T.
Bromley, H., & Co.
Deebury & Brown
Lakeman, J. J.

Quelch, H. O.
Spurin, R. C. (Dorothy)
Sydney, P. A. & Co.
Sutton, O., & Co.

Thompson & Capper
Warrick Bros. | Wilson, A.
Wood, W. (Arecia Nut)

DISINFECTANTS
Alvart, F. O., and Co.
Druce Bros., & Co.
Fletcher Bros., & Co.

Government Sanitary Co.
Grindley & Co. (Lim.)
Joyce's Fluid
Mason, C. E., & Co.

National Chemical Co.
Sanitae Co.
Seabury & Johnson
Star Chemical Co.

Tyler, Thom & Co.
DISPENSING
The Lofodden Cod Liver Oil Co.

DOG MEDICINES
Spratte Patent (Lim.)

DRUGGISTS' SUN.
Ayrton & Saunders
Bailey, M., & Co.
Barclay & Sons (Limited)

Beaulieu Co.
Rash, H. W., Co.
Chemists' Association (Lim.)
Chemists' Mineral Water

Association (Lim.)
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons (Lim.)

Gibbertson, H., & Sons
Hanbury & Co.
Hoskin Wilson & Co.
Iris & Co.

Kay Bros. (Lim.)
Lynch & Co. (Lim.)
May, Roberts & Co.
Newbery, B., & Sons

Quelch, H. O.
Sanger & Sons
Seahite & Co.
Tidman & Son Toogood W.

Wood, Vineat & Young, J.
DRUG MILLS
Burroughs, Wellcome & Co.

DYES, &c.
Crawshaw & Co.
Gratwick & Co. (Lim.)

EAU DE COLOGNE
Farina, J. M.
Hoskin, Wilson & Co. (Farina)
Martin, Maria (Nun)

Oscar, Moenich & Co.
ELECTRIC APPAR.
Darton, P., & Co.
Friedlander, A.

Gent & Co.
Orme & Co.

EMEROCATION

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Day & Sons
Elliman, Sons & Co.

ENEMAS
Evans, Sons & Co.
Sanger & Son
Warne & Co.

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Barker, W., & Son
Corean, J. R.

ESSENCES
Beckett, W.
Berger, P.
Boehm, F.

Boehm, J., & Co.
Brady & Hinchliffe (Lim.)
Burgoyne, Burdages & Co.

Bush, W. J., & Co.
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.

Hay, W.
Idrie & Co.
May & Baker (Lim.)
Newell & Mason

Oldfield, Pattinson & Co.
Stevenson & Howell
Tyler, P. (Anchovies)
Tyler, T., & Co.

Woolley, Sons & Co.
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Chris, A.

Clay, Dod & Co.
Cooking & Co. (Japan Peppermint)
Dodg & Olcott

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Hodgkinson, Treacher & Clarke
Lewis, M.

May & Baker (Lim.)
Robert Freres
Sotio & Andrioli
Schlesinger, L.

Stevenson & Howell
Sydney & Co.
Tombarel Freres
Treat, R. O.

Vogt, G., & Co.
Warrick Bros.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sone
May & Baker (Lim.)

Robbins, J., & Co.
Treat, T., & Co.
White, A., & Sons
Woolley, Sons & Co.

Wright, Layman & Umney
EUCALYPTUS
Downie B. I. P. Co.

Drysdale, J. W., & Co.
Evans, Lescher & Webb
Fletcher, Fletcher & Stevenson

Tasmanian Eucalyptus Oil
Vogt, G., & Co.

EXALGWE
K B
EXTRACT MEAT
Brand & Co.

Bueh's Liquid Beef
Denaeys's Peptone and Extract of Meat Co. (Lim.)
Idrie & Co. (Viking Co.)

Liebig Co.
Liquor Carnis Co. (Lim.)
Mason, G., & Co. (Lim.)

Wyeth, J., & Brother
EXTRACTS, FLUID
Allen & Hanburys

Anderson & Co.
Barber, P., & Co.
Burgoyne, Burdages & Co.

Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hoskin, Wilson & Co.

Hooper, B., & Co.
Lloyd, T. Howard & Co.
Mose & Co.

Potter & Clarke
Vogt, G., & Co.
Wright, Layman & Umney

FEEDING BOTTLES
Burroughs, Wellcome & Co.
(Thermo Safe)
Chemists' Association (Lim.)

Evans, Sons & Co.
Hearn, E. A., & Co.
Hoskin, Wilson & Co.
Kilner Bros.

Lynch & Co.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S. Son & Thompson

FILTERING
Berkfeld Filter Co.
Fordham, W. B., & Sons (Ld.)
Mawson, Swan & Weddell

Silicated Carbon Filter Co.
FISH GLOVES
Pattison, G.

FLY PAPERS
Ford, Shapland & Co.
Mather, W.

Maw, S., Son & Thompson
Martin, Bridge & Wright
Wilson, S.

FORMULA
Brooks, T.

GINGER ALE
Hay, W. (Essence)
Mills, N. M., & Co.

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Allen & Hanburys
Benger's Food
Brand & Co.

Clarke's, Fairy Light Co. (Lim.) (Warmer)
Evans, Sons & Co.
Goodall, Backhouse & Co.

Hoskin, Wilson & Co.
Idrie & Co.
Kings, F., & Co. (Lim.)
Liebig Co.

Liquor Carnis Co. (Lim.)
Mason & Co. (Lim.)
Nestle, H.

GLYCERINE
Blyton Astley & Co. (Packettes)
Boehm, F., Fink & Co.
Fuerst Bros.

Griff, R. W., & Co.
Lynch & Co.
Price's Candle Co.
The Lofodden Cod Liver Oil Co.

GOUT AND RHEUMATIC PILLS
Bromley, C.

GRANULAR PREP.
Bishop, A., & Sons
Evans, Sons & Co.
Hoskin, Wilson & Co.

Lloyd, T. H., & Co.
Wright, Layman & Umney
GRPE WATER
Woodward, W.

GUM
Fink & Co. (Arable, &c.)
Greiff, R. W., & Co.
Levermore, Ang., & Co.

HAIR PREP.
Anglo-American Drug Co.
Cheesebrough Mfg. Co.
Edwards & Sons

Truett, H. P. (Lim.)
HERBALISTS
Newball & Mason

Potter & Clarke
HERB BEER BITS
Newball & Mason

Oldfield, Pattinson & Co.
Potter & Clarke
HOMOEOPATHIC
Keene & Ashwell

Leath & Roes
Thompson & Capper
Watson & Watte

HYPOPHOSPHES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.

Symes & Co.
Tyler, Thomas, & Co.
INHALERS
Burroughs, Wellcome & Co.

Hoskin, Wilson & Co.
Lynch & Co. (Lim.)
Smythe, Co. The
Toogood, W.

INK (SEE MARKING INKS)
Bewley & Draper

INSECTICIDES
Keating, T.
Stelner & Co.

INSURANCE
London and Lancashire Fire Insurance Co.

KETCHUP
Tyler, P.

LARD
Even, J., & Sons
LIME JUICE
Southwell, C., & Co.

LINT
Liverpool Lint Co.
Newsome, C.

Robinson & Sons
Seabury & Johnson
LIQUORIC
Ferguson & Forester (Solazzi)

LITHIA
Fuerst Bros.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.

Gibson, B., & Sons (Maufr.)
Hill & Son
Jackson, T.

Raines & Co.
Warrick Bros.
MACHINERY
Bennett, Sons, & Sharrs

Burroughs, Wellcome & Co.
Gardner, W.
Gilbert, J. A., & Co.

Leete, Edwards & Norman, Ld.
Pindar, W.
Pontifex & Wood (Lim.)
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bush, W., Son & Co.
Evans, Sons & Co.

Greiff, R. W., & Co.
Henry, T. & W. (Calsined)
Hill & Sons, A. S.

Washington Chemical Co.
MARINE TWE
Barber, G. Co. (Orion)

Bond, John (Crystal Palace)
(Ink and Pencils)
Perry & Co. (Fauci)

MALT EXTRACT, &c.

Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co.

(Kieper's)
Hoskin, Wilson & Co.
Raines & Co.
Richardson, John, & Co. (Lelcester), Lim.

Robinson & Co.
The Lofodden Cod Liver Oil Co.
Wyleys & Co.

MANICURE PREP.
Dr. Paul's

MEDICINE CHATS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL
A 1 Menthol Depot, A. W.
Shirley, Proprietor.
Cooking & Co.

Evans, Sons & Co.
Hoskin, Wilson & Co.
Seabury & Johnson
Tyler, P.

MERCURIALS
Fuerst Brothers
Howards & Sons
May & Baker (Lim.)

Tyler, Thomas, & Co.
METH. SPIRITS, &c.
Boord & Son

Burroughs, J.
Harvey, J., & W., & Co.
Jones & Co.

Phillips, G., & Co.
Smith, S., & Co.
METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, P., & Co.
Newhouse & T. W. (Slides)
Perken, Son & Baymont

MILK
Nestle, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, T., & H., & Co.

OILS, PAINTS, &c.
Fleming, A. B., & Co. (Lim.)
Fox, W., & Sons

OINTMENT BASES
Burroughs, Wellcome & Co. (Lanoline)
Cheesebrough (Vaseline)

Grindley & Co. (Petroleum Jelly)
Lloyd, T. H., & Co.
Richardson, J., & Co. Leices-ter (Lim.) (Anaspallus)

OPTICIANS
Botwright & Grey
Darton, P., & Co.

Perken, Son & Baymont
OTTO OF ROSE
Fuerst Bros.

Shippoff & Co.
Treat, R. O.
PETROLEUM
Allen & Hanburys

Barclay & Sons (Lim.)
Dee Oil Co. (Lim.)
Fuerst Bros. (Jelly)

Grindley & Co. (Jelly)
Hartick & Co. (Lim.)
PAPAIN
Kuhn B. (Dr. Finkler)

PATENT AGENTS
Horn & Son

PATENT MEDONS
Anglo-American Drug Co. (Lim.)
Atkinson, Barber (Infant's Preserv.)

Barclay & Sons (Lim.)
Beecham, T. (Pills)
Bow, Dr. Liniment

Bromley, C. (Gout and Rheu.)
Chemists' Association
Clarke's Blood Mixture

Edwards & Son
Evans, Lescher & Webb
Fleming's (Powders)

Goodall, Backhouse & Co.
Guy's Tonic
Hakka Cream (A. P. Bueh & Co.)

Holloway (Pills and Oint.)
Hoskins & Sons
Krat Haliva

Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Morison's Ointment

Newbery & Sons
Roberts & Co. (Forelign)
Seagull (Lim.)
Sutton, W., & Co.

Wilson, A. (Bunter's Nervine)
Wright, J. M.

PEPSINE, &c.
Armour & Co.
Burroughs, Wellcome & Co.

Chassagny & Co.
Fletcher, Fletcher & Stevenson
Greiff, R. W., & Co.

Kuhn, B.
Newbery, P. & Sons (Inglvin)
Stern, G. & G.

Warner, C. (Inglvin)
Wyleys (Lim.)
PEPPERMINT OIL
Bush, W. J., & Co.

Cooking & Co.
Stevenson & Howell

PERFUMERY, FANCY SOAPS

Barclay & Sons, Lim.
Bayley & Co.
Beaulieu Co.

Beaulieu & Co.
Blondau & Co.
Boshm, F.

Brooks, T. (Solid Perfume)
Burroughs, Wellcome & Co.
Cush, W., & Co.

Davallier Freres
Chemists' Association (Lim.)
Cheesebrough Manufacturing Co.

Chloris, A.
Evans, Sons & Co.
Ewen, S.

Farina, J. M.
Giraud Fille
Grossmith, J., & Sons

Hoskins & Sons
Mulhens, F.
Newbery & Sons (Bardous)
Offinger, E.

Pears' Soap (Lim.)
Price's Patent Candle Co.
Robert Freres
Rosmarine Manufg. Co.

Rainsbury, S. (Lav. Water)
Saidell & Co.
Sulley, A. W.
Sotio & Andrioli

Tidman & Son
Tombarel Freres
Treat, R. O.

Truett, H. P. (Lim.)
Warrick Brothers
West, T. (Okl's Moss)

Woolley, Sons & Co. (Powder)
Wright, Layman & Umney
PEROX. OF HYDR
Robbins & Co.

PHARM. PREPS.
Allen & Hanburys
Anderson & Co.

Barclay & Sons & Co.
Battley & Watts
Berger, F.

Boehm, F.
Boehringer, C. F., & Sohn
Bonilton, J., & Co. (Lim.)

Burgoyne, Burdages & Co.
Burroughs, Wellcome & Co.
Chassagny & Co.

Delacoe, Ch., & Co.
Duncan, Flockhart & Co.
Ferre & Co.

Fletcher, Fletcher & Co.
Giles Schacht & Co.
Greiff, R. W., & Co.

Hoskin, Wilson & Co.
Hewlett & Son
Howards & Sons

Jeyes Sanitary Compounds Co.
Keith & Co. (Conc. Tincture)
Kingsford Co.

Lambert Pharmacol. Co.
Largen, G. W.
Learnmont, W. D. ("Nep-tunia")

May & Baker (Lim.)
Mose, J., & Co.
Oppenheimer, Son & Co. (Lim.)

Potter & Clarke
Richardson, John, & Co. Lelcester, Lim.

Riccle & Co. | Roberts & Co.
Smith & Sons
Smith, T. & H., & Co.

Sonthall Bros. & Barclay
Sutton, W., & Co.
Sydney & Co.

Tyler, T., & Co.
White, Alfred, & Sons
Woolley, Sons & Co.

Wright Bros.
Wyleys & Co.
PHOTOGRAPHIC
Barclay & Sons (Lim.)

Blackfriars Photographs Co.
Botwright & Grey
Darton, P., & Co.

Fallowfield, J.
Greiff, R. W., & Co.
Griffiths, W., & Co. (Lim.)

Houghton, G., & Sons
Howards & Son (Chemicals)
Orme, J., & Co.

Perken, Son & Baymont
Tyler, T., & Co.
White, Alfred & Sons

Zimmerman & Co.
PILL MACHINES
Pindar, J. W.

Toogood, W. (Coater)
Werner & Pfleiderer
PILLS (Coated, &c.)

POLISHING

Bradley & Bonville (Albaten)
Chancellor & Co.
Flesher, Maybould & Co.
Fordham, W. B. & Sons (Lim.)
Gasky, John, and Sons
Pynka Syndicate (Lim.)
Stephens & Co.

PORCELAIN GOODS

Toogood, (E. O. Potts resist.)

POULTRY FOOD

Spratt's Patent (Lim.)

PRECIP. CHALK

Levermore, Aug., & Co.

PRINTING

Bowers Bros.
Boehring, C. P. & Schme
Ford, Shephard & Co.
Hildesheimer & Faulkner
Silverlock, H. I. Townsend, J.
Townsend, J.
FUMELINE
Stern, G. and G.

QUININE SALTS

Greiff, R. W., and Co.
Howards and Sons
Zimmermann A. & M.

RENNET

Duncan, Flockhart and Co.
Greiff, R. W., and Co.
Oldfield, Pattinson and Co.

SACCHARIN

Allen and Hanbury
Burroughs Bros.
Burroughs, Wellcome and Co.

SALIXIN

Macfarlan and Co.
Smith, T. and H., and Co.

SALICYLIC ACID

Burgoine, Burdidge and Co.
West Bros.
Kuhn, B.
Zimmermann, A. and M.

SALT

Stern, G. and G. (Papilla)

SCHOOLS, &c.

City School of Chemistry and
Pharmacy (Lim.)
Liverpool School of Pharmacy
London Homoeopathic and
Medical School
Manchester Col. of Pharmacy
Northern School of Pharmacy
Owens College
Sheffield School of Pharmacy
South London School of
Pharmacy (Lim.)
Royal College of Science
The School of Pharmacy
University of Edinburgh
Westminster College

SAUCES, PICKLES

Goodall, Backhouse and Co.
Mason, G., and Co. (Lim.)
Tyrer, P.

SEALING WAX

Savage & Co. (Holder)

SEEDS

Potter & Clarke

SELTONES

Bratby and Hinchliffe (Ld.)
Evans, Sons and Co.
Fordham, W. B. & Sons
(Lim.)
Lynch and Co. (Lim.)
May, Roberts and Co.

SHAVING

Hovenden & Sons (Euxesie)
Lloyd, Mrs. A. S. (Euxesie)

SLEEP DIP

Fletcher Bros. & Co.
Jeyons, W. B.
Jeyons Sanitary Compounds Co.

SHOP FITTERS

Bowling and Gowler
Bygrave, J. and W.
Joseph, P.
Metall, E.
Potts, H., and Co.
S. Howlett
Treble, G., and Co.

SOAP

Ayrton and Saunders
Barclay and Sons (Lim.)
Blondeau and Co. (Vinella)
Bronnley, H., and Co.
Calvert, F. C., and Co.
Cook, E., and Co.
Fordham, W. B. & Sons (Ld.)
Jeyons' Sanitary Compounds Co.
Mulhens, F.
Pear's Soap
Price, Napoleon, & Co.
Wright, Layman & Umney

SPECTACLES

Botwright and Gray
Darton, F. and Co.
Perken, Son and Hayment

SPONGES

Cresswell Bros. & Schmitz
Evans, Sons and Co.
Peterson, M., and Co.

STAMPS (RUBBER)

Barkley, J.
Hickinson, J.

STARCHE

Chancellor & Co. (Mack's
Double)
Crichtley (Gloss)

STOPPERS

Anstin and Co. (Sprinklers)
Barnott and Foster
Melin, C.
Istipendium Stopper Co.

STOVES

Clark, S., and Co. (Lim.)

SUGAR

Fletcher, Fletcher and
Stevenson
Gibson, R., and Sons

SUGAR OF MILK

Burroughs Bros.

SULFONAL

Burroughs, Wellcome and Co.
Greiff, R. W., and Co.
May and Baker (Limited)

SURGICAL

Ayrton and Saunders
Bailey, W. H., and Son
Barclay and Sons (Limited)
Cocking, J. P.
Harrison, T. H.
Haywood, J. H.
Krohn and Sesemann
Liverpool Patent Lint Co
Lindsey & Sons
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co. (Lei-
cester), Lim.
Robinson and Sons
Schmitz, F. and Co.
Warne & Co.
Wood, Vincent

SYPHONS

Barnett and Foster
Bratby and Hinchliffe (Ld.)
British Syphon Co.
Fordham, W. B. & Sons (Ld.)
Gerat, E., and Co.
Idris and Co.
Kilner Bros.
Melin, C.
Schweppe, J., & Co.

SYRUPS

Anderson & Co.
Fletcher, Fletcher (Ligners)
Idris and Co.
Wood, Cooper & Co.

TABLETS

Blyton, Aetley & Co. (Sulphur)
Corean, J. R. (advertising)

TEA

Cave, Johnson & Co.
Gt. Tower St. Tea Co.
Kearley & Tonge
Lipton
Walker and Dalrymple

TEETHING PADS

Marriott, E., & Co.

THERMOMETERS

Bailey, W. H., and Son
Barclay and Sons (Lim.)
Darton, F., and Co.
Evans, Sons and Co.
Winks, J. J.
Hildebrand & Co.
Perken Son and Hayment

TOBACCO, CIGARS,**CIGARETTE**

Taddy and Co.

TOILET

Allen & Hanbury (Chrisma)
Balm of Bethesda
Burroughs, Wellcome & Co.
(Lanoline)
Dee Oil Co. (Lim.)
Hovenden & Sons
Quelch, H. C.
Rowland, A., and Sons
Truefitt, H. P. (Limited)

TOOTH PASTE

Anglo-American Drug Co.
(Lim.)
Beecham, T.
Jewsbury and Brown
Sutton, O. and Co. (Block)
Wilson, A. (Bunter's)
Woods, M. (Arecs)

TRADE MARKS

Browne, T. B.
Fleurbaey, J. B.
Horn & Son
Trade Mark Agency

TRUSSES

Bailey, W. H., and Son
Evans, Sons & Co.
Haywood, J. H.
Lindsey & Sons
Wood, V.

URETHANE

Howards & Sons

VACCINATION

Himee, Dr.
Vaccine Association (Lym)

VASELINE

Chesebrough Manufacturing Co

VALUES AND**TRANSF. AGENTS.**

Berdoe and Co.
Brutt, F. J.
Crocker, G. B., & Co.
Orridge and Co.

VETERINARY

Bird & Storey | Day and Son
Day, Son and Hewitt
Elliman, Sons and Co.
James, W. H. (Blisters)
Jeyons' Sanitary Compounds
Lloyd, T., Howard & Co.
Rookledge, F. E.
Spratts (Oats)
Walker, Troke and Co.
Wyley, Lim.

VINOLIA (Superfitt's)

Blondeau and Co.

WHOLESALE AND**EXPORT DRUGS**

Allen and Hanbury
Anderson & Co.
Barron, Harveys and Co. 'R
Battley and Watts
Burgoyne, Burdidge and Co.
Buen, W., and Co.
Buen, W. J., and Co.
Clay, Dod and Co.
Coward, G. F., & Co.
DeLaure, Ch., & Co.
Evans, Sons and Co.
Evans, Leecher and Webb
Ferriss and Co.
Fox, W., and Sons
Goodall, Backhouse and Co.
Harker, Bagg and Morgan
Heaton, Squire and Francis
Hewlett and Son
Hill, A. S., and Son
Hodgkinson, Treacher and Co.
Lothians and Salmer
Lloyd, T., Howard and Co.
Macfarlan, J. F., and Co.
Oldfield, Pattinson and Co.
Potter and Clarke
Richardson, J., and Co.
Smith & Sons
Symee & Co.
Thompson and Capper
Walker, Troke and Co.
Willows, Francis and Butler
Woolley & Sons, and Co.
Wright, Layman and Umney
Wyley, Lim.

WINES, SPIRITS

Armbricht, Nelson and Co.
(Coca)
Durrant & Co.
Goodall, Backhouse and Co.
Hoh Hygienic Socy. (Coca)
Idris & Co.
Miller, A., & Co. (Orange)
Robinson, B.
Rose & Co.

1,000 PILLS IN SHOW VASE, 5/6. PIONEERS IN THE PILL TRADE!

WM. R. WARNER & CO.

SMALL SUGAR-COATED PILLS,

Unequalled in their medicinal properties or in SOLUBILITY, the best ingredients being invariably employed.

Suitable for Retail Sale, in Screw-capped Pill Tubes. Not liable to Stamp Duty unless specially recommended or sold as "Proprietary."

No. 142. Gran. Cath. Comp. (Little Cathartic Granules).
Aloin, 1-10 gr.; Podophyllin, 1-5 gr.; Ext. Hyoscy., 1-20 gr.; Jalapin, 1-10 gr.; Ext. Nuc. Vom., 1-20 gr.; Ol. Res. Capsici, 1-20 gr.
Dose, 1 to 4.

Per 1,000.
In Plain Bottle,
4/-.

Per Small Stoppered
Vase with painted
glass label,
5/6.

Per Stoppered Vase,
with painted glass
label. (5,000.)
21/-.
(Coca)

No. 180.—Gran. Cath. Co. c. Euonymin.—Same as "No. 142," except that $\frac{1}{2}$ gr. Euonymin is used instead of $\frac{1}{2}$ gr. Podophyllin. Prices same as for "No. 142."

An "all-round" Antibilious Pill, which has found favour wherever introduced, is "No. 120" ("Pil. Cathartic and Liver").

No. 120. Pil. Cathartic and Liver.
R. Podophyllin, $\frac{1}{2}$ gr.; Ext. Colocynthis, $\frac{1}{2}$ gr.;
Pv. Soc. Aloes, 1 gr.; Pv. Scammony, $\frac{1}{2}$ gr.;
Pv. Saponis, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.;
Gingerine, 1-8 gr. Dose, 2 to 4 pills as a
purgative, 1 to 2 pills as an aperient.

Per 1,000.
In Plain Bottle,
4/-.
(Coca)

Per Stoppered Vase,
with painted glass
label,
6/4.

Per Bottle (Bulk)
of 5,000.
18/9.

Write for New Complete Price List of PILLS, GRANULES and PARVULES, &c., by W. R. WARNER & CO., giving upwards of

250 Excellent Formulæ, at moderate and greatly reduced prices.

Depot: F. NEWBERRY & SONS.



ROBINSON'S LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt,
and sound Port Wine.

REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. ROBINSON, of Fendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.L.S.,

Lecturer on Materia Medica in the Owens College, Manchester (Victoria University.)
December 15, 1883.

Introduced 1855.]

ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.]

One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopoeia, and free from all Chemical Impurity. They will keep good any length of time in any climate.



Aqua Anethi, Concent., 4/ lb.	Aqua Cinnam. Ver. Concent., 4/ lb.	Aqua Fœniculi, Concent., 4/ lb.	Aqua Pimentæ, Concent., 4/ lb.
" Aneli " 4/ "	" Cassia " 4/ "	" Menth. Pip. " 4/ "	" Rose " 5/6
" Camphoræ " 4/ "	" Flor. Aurant. " 8/8 "	" Ang. " 4/ "	" Rose Virgin. " 10/6
" Carui " 5/ "	" Flor. Sambuci " 8/8 "	" Virid. " 4/ "	

The above are put up in Bottles of 4 lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the LANCET, July 15, 1882:—"CONCENTRATED WATERS (Robinson's, Fendleton, Manchester).—Among the samples sent us we find Aq. Anethi, Aneli, Cinnam. Ver., Rose, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopoeia. They are excellent in quality, and will be very useful, especially in country practices. D"

Wholesale Agents: HEARON & CO. London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR, B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.

WHITE, FAIRCHILD & CO.

ESTABLISHED 1847.

Offices—30 GREAT TOWER STREET, E.C. Mills—WHITECHAPEL, E.

Speciality—CANISTER COFFEES.

These Coffees have been before the Public for nearly 50 years, and are the very best of their kind.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S.V.R.** Methylated Spirit and Finish on application.
FINEST ORANGE WINE FOR QUININE.

**JAMES
BURROUGH**

FINE PORT (without tannin)
FINE SHERRY (for Medicinal uses, &c.)
FINE MALAGA (for Steel Wine, &c.)
FIN BURGUNDY (for invalids)

S.V.R. and Methylated Spirit at lowest present prices.

CALE ST. DISTILLERY

*All at Lowest Prices and
specially recommended.*

CHELSEA

S. V. METH.

JONES & COMPANY,
COPPERFIELD ROAD
LONDON, E.

LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply **METHYLATED SPIRIT** in
5-gallon quantities at **Lowest Prices.**

REDUCTIONS TO LARGE BUYERS.
SAMPLES FREE.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION**.

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, **FINDS THAT NO TWO OF THEM ARE IDENTICAL**, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, **IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION**, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.



A GREAT SUCCESS!!

BAILEY'S SUSPENSORY BANDAGES.

A. B. C. SYSTEM.

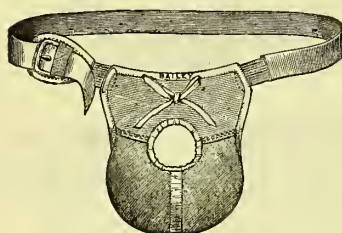


FIG. 1.

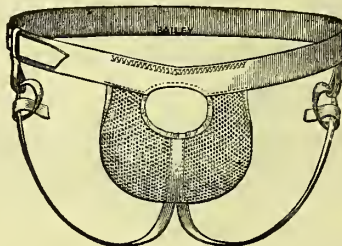


FIG. 2.

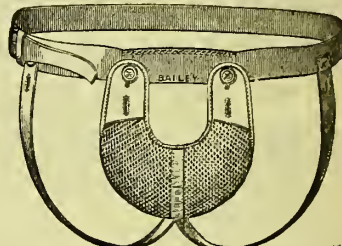


FIG. 3.

Cabinet of 2 dozen assorted, 30/- USUAL DISCOUNT.

TESTIMONIAL.

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In severe angular cases circum-

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tion of ditto, and contour should

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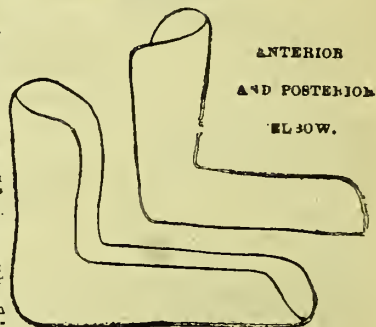
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length from neck to axilla.

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in the process of manufac-

ture be left soft.

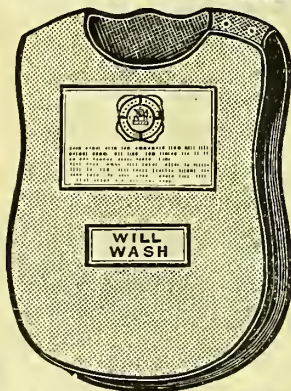


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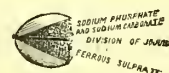
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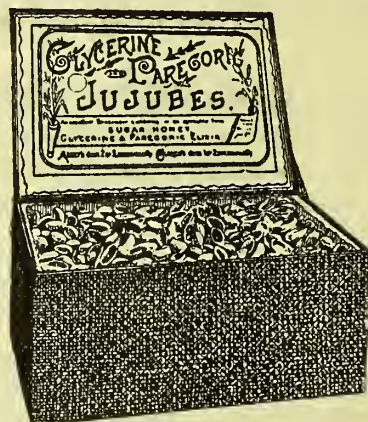
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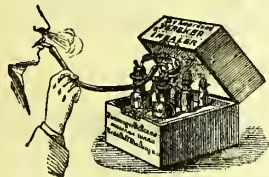
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Pharmaceutical Chemists and Manufacturers of Medicated Confectionery for Chemists only,

EAGLE LABORATORIES, MANCHESTER.

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THE VEREKER IMPROVED CHLORIDE AMMONIUM INHALER.



A pamphlet bearing upon the use of Ammon. Chloride Vapour as an inhalant in diseases of the respiratory tract is enclosed with each inhaler.

The Vereker Chloride of Ammonium Inhaler in its improved form answers its purposes well. Properly arranged, it will deliver perfectly neutral Am Cl vapour. It is portable, easily taken apart and re-set, does not require the constant refilling of other forms of inhaler, one charge being sufficient for a considerable number of applications. Put up in neat box and supplied to the Trade at 5s. each; retail 7s.

THE B. W. & CO. PINOL-EUCALYPTIA DRY INHALER.



This useful little instrument is simple in construction, and cannot get out of order. The medicament is poured into the wider end of the glass tube until the absorbent medium is saturated. The patient inspires from the mouth-piece, and as the air is drawn through it becomes laden with the vapour of the particular inhalant concerned. The Pinol-Eucalyptia Dry Inhaler may be used at all times without the slightest danger in all cases of throat and chest affections. It has lately become remarkably popular through its adoption and success as a palliative in the treatment of, and as a preventive even against, asthmatical attacks. In malarial regions, abroad, it has been extremely useful as a protective against malarial fever. Supplied to the Trade in neat cases containing also a sufficiency of both Pinol and Eucalyptia for an extended trial, at 14s per dozen.

THE WALLICH INHALER

(For either Steam or Cold Inhalations).

This is made of earthenware, and is an improvement upon the inhalers of this class. It is fitted with a hollow handle through which the air is drawn to the base of the liquid.

The medicament, instead of floating upon the surface of the liquid, is poured upon a sponge placed in a glass cylinder fixed at the highest point in the cover, so that the air inhaled (cold or steam laden) is thoroughly impregnated. Shortly, it may be said to have the following advantages:—1st. That it is a distinct advance upon any instrument of its kind. 2nd. It is equally adapted

for cold inhalations and for the inhalation of steam charged with such medicaments as Pure Terebene, Ether, or essential oils, as may be necessary for inhalation, by dropping the inhalant upon the sponge contained in the glass cylinder. 3rd. That the full benefit of the inhalant is experienced. 4th. A continued current of air rushing into the jar through the orifice in the handle, drives off a regular current of steam, which displaces the medicament to be inhaled from the sponge.

For the inhalation of Acetic Acid, Hydrocyanic Acid, Sulphurous Acid, Ether, Amyl Nitrite, Chloroform, Creosote, Ol. Pini Sylvestris, Terebene, by steam atomisation, the Wallich's Inhaler is the best. Price to the Trade, 4s. each.



The Witch-hazel Plant.

HAZELINE.—A colourless, distilled product from the *Hamamelis virginica*. This well-known preparation has been found of the greatest benefit, either employed internally or by atomisation, in hæmoptysis, bronchorrhœa, and hæmatemesis.

Supplied to the Trade in $\frac{1}{4}$ and 1 lb. bottles, at 14s. and 42s. per dozen.

EUCALYPTIA.—Obtained by distillation from either the *Eucalyptus Globulus* or *E. Oleosa*. Eucalyptia is the purest form of this volatile oil obtainable, and the only form suitable for use with our inhalers. Eucalyptia, as an antiseptic and germicide, is three times as powerful as carbolic acid, while it is practically non-toxic. Used as an inhalant in cases of *ozæna*, to remove fetor in bronchitis, and check profuse expectoration in phthisis and diphtheria.

Supplied to the Trade in 2 oz. and 1 lb. bottles, 15/- and 72/- per dozen.

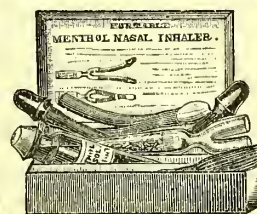


The Pinus Pumilio.

"PINOL."—The distilled volatile principles obtained from the needles of the *Pinus pumilio* found growing just within the snow-line on the Alps. This preparation possesses decided stimulating expectorant properties, and has been employed with marked benefit in many affections of the respiratory passages. Supplied to the Trade in $\frac{1}{4}$ oz. and 1 oz. bottles, at 15s. and 24s per dozen.

THE B. W. & CO.

ORO - NASAL MENTHOL INHALER.



For the effective use of menthol in the treatment of irritable, inflamed, or catarrhal conditions of the naso-pharyngeal mucous surfaces, the Oro-nasal Inhaler, as suggested by Dr. Macnaughton Jones, answers every purpose. As its name indicates, it includes both a nasal and an oral attachment, and can be used for the inhalation of other medicaments as well as menthol. Will be found of excellent service in the treatment of hay-fever, rhinitis, *ozæna*, &c. A bottle of menthol solution, with camel-hair brush, is included in the case, which, complete, is supplied to the Trade at 36s. per dozen.

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2-oz. Bottles, in boxes of $\frac{1}{4}$ gross ... 30s. per gross.

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Sole Proprietors and Makers of the "VASELINE" Preparations.

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WITH THE "EXCERPTA THERAPEUTICA."

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The Diary for 1893 is superior in every way to previous editions; it is considered by doctors with extensive work in general practice to be all that can be desired. It is made most convenient for the pocket, and is supplied either for 56 or 112 patients weekly, according to requirements.

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See "Chemist and Druggist," December 15th, 1874.

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For Infants, Children, and Invalids.

GOLD MEDAL AWARDED—HEALTH EXHIBITION, LONDON.

HIGHEST AWARD—ADELAIDE, 1887, and MELBOURNE, 1888.

The Lancet describes it as "Mr. Benger's admirable preparation."

The London Medical Record says: "It is retained when all other foods are rejected. It is invaluable."

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Wholesale of all Wholesale Houses.



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A WEEKLY JOURNAL.

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BRANCH OFFICE, FINK'S BUILDINGS, MELBOURNE,
AUSTRALASIA.

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Summary.

AN Irish candidate communicates his experience of the licence examination.

MR. J. S. WARD, principal of the Liverpool School of Pharmacy, died on Wednesday.

IN an Editorial article we give particulars regarding the Court of Arbitration founded in the City of London. The arbitrators are to be men in business.

THE unqualified assistant of a Welsh doctor has been censured by a coroner's jury for giving a woman 10 grains of strychnine instead of as much croton-chloral hydrate.

THE Midland Railway Company were the carriers of some parcels of dye, which they failed to deliver promptly. The dye in consequence became unsaleable at the expected prices, and the consignee has now been awarded the difference by the Judge of the Wakefield County Court.

A PHARMACEUTICAL ASSOCIATION has been formed at Cambridge amongst the juniors. Mr. Mair laid before the Dundee Assistants' Association a scheme of botanical study which has the support of pharmaceutical botany examiners. The Chemists' Assistants' Association of London held a successful *conversazione* last week.

IN our correspondence columns the discussions are continued on the conditions of labour in pharmacy (a chemist's wife having something to say), and what may be reckoned as a fair day's dispensing. Several letters on practical topics are printed, and we have more "questionable post-cards" asking for price-lists of proprietaries.

THE Chemical Society resumed work last week. The rooms of the Society have been greatly improved, and the electric light introduced. Professor Taorpe stated that he had repeated Moissan's experiments in the isolation of fluorine, and had failed to get that element. Moissan has practically refused him assistance.

"The Pharmacy and Poison Laws of the United Kingdom."

2s. 6d.; post-free, 2s. 9d.

THIS book is now ready. It is thoroughly valuable to all connected with pharmacy, and we have received highly complimentary notes regarding it from several gentlemen who take a special interest in pharmacy law. The following reviews have appeared:—

From the office in London of THE CHEMIST AND DRUGGIST comes a handbook of "The Pharmacy and Poison Laws of the United Kingdom." The book, which has no author's name attached to it, gives the statutes, the parliamentary discussions on the Acts of 1858 and 1869, and notes of the decisions. It will thus meet all the necessities of students preparing for the examinations of the Pharmaceutical Societies, for which purpose it appears to have been designed. But there is no reason why, convenient and comprehensive as it is, the book should not prove useful to a wider body.—*Scotsman*.

IN handy form we have here a history of the formation of the Pharmaceutical Society, and of the legislation which has from time to time been passed affecting the position of such society and regulating the sale of poisons in this country. The cases which have been decided, many of them merely in county courts, or magistrates' courts, and which would in an ordinary way remain unreported, are given clearly here, and thus render the book much more useful to the legal practitioner than it otherwise would be.—*Manchester Courier*.

WE have received from the office of THE CHEMIST AND DRUGGIST a very useful and laborious treatise on "The Pharmacy and Poison Laws of the United Kingdom—Their History and Interpretation." It furnishes a history of the legislation with regard to the practice of pharmacy in the United Kingdom, and includes an account of the pharmacy laws in force in Canada and the Colonies. It is intended for pharmaceutical students but forms a handy reference-book for others.—*Scottish Leader*.

THE CHEMISTS' AND DRUGGISTS' DIARY, 1893,

will be delivered to subscribers in the United Kingdom in the course of next week by Sutton & Co. Carriage is paid on all the Diaries, but it always happens that some of Sutton's agents will make a claim. In all such cases subscribers will oblige by paying the amount charged and taking a receipt for it. We will refund the amount thus paid if the receipt is sent to us. Subscribers whose subscriptions expire at the end of November will please note.

POST-CARD COMPETITIONS.

WE remind intending competitors who have not yet sent in their post-cards that November 30 is the last day for sending in. The object of the competition is to secure ideas, plans, sketches, or suggestions for a Christmas display of goods of any kind generally sold by chemists and druggists. The display may take the form of an effective window-dressing, counter-arrangement, or any other scheme which will give prominence to the goods, which will be consistent with the season, and encourage trade or draw custom. We do not exclude from the competition any ideas which have been carried out by chemists in past Christmas seasons. These will be treated on their merits. Nor do we place any limit upon the number of post-cards which a person may send in, but the rule is strict as regards "one idea on one post card." Competitors will please use white post-cards if they send any sketch.

English News.

A Devonport Chemist Gets a Month.

At the Devonport Police Court last week Richard Sweet Coke, chemist, late of Albion Road, Morice Town, was charged with assaulting his wife, Ellen Elizabeth Coke. The prosecutrix stated that the defendant came to the house where she was living and pulled her out of the room by the throat to the passage, where he used her very badly. Her evidence was supported by two other witnesses. The defendant stated that he went to the house to kiss his wife and make a reconciliation. (Laughter.) He had given away to drink lately and become very dissipated. The Bench ordered him to find two sureties of 20*l.* each to keep the peace for six months, or in default a month's imprisonment. As no sureties were forthcoming he went to prison.

Strychnine for Croton Chloral: a Doctor's Assistant Severely Censured.

Mr. A. J. Rhys, coroner, last Friday concluded an inquiry at Mountain Ash regarding the death of Mrs. Mary Ann Mellin, 22, who died at her residence 51 Henry Street, Mountain Ash, on November 7 under somewhat painful circumstances. She had been suffering from toothache, and went to Dr. Evans's surgery and received from an assistant some powder in a piece of paper. She went straight home, put the powder in a small glass with two table-spoonfuls of water, and swallowed it, death taking place shortly after. At the first inquiry an adjournment was made to allow of an analysis being made, and Dr. Morgan, public analyst for the county of Glamorgan, now said that upon examining the stomach he found seventh-tenths of a grain of strychnine.

Dr. E. P. Evans said that Mr. Owen Jones was his assistant. He had no qualification, and had been an assistant under him from four to five years. Mr. Owen Jones was in his (Pryce Street) surgery on last Monday week. Mr. Kent Jones was there also. He himself had only just left when deceased came in. He was called to deceased at half-past 8 [she took the powder at 6.30], and found her on the bed, complaining of pain, and suffering, as he thought, from a form of convulsive hysteria and paroxysms and twitching of the muscles. After a while she said that she felt much better, but complained of stiffness. He then ordered mustard poultices to be applied to the calves of her legs, and stayed there ten or twelve minutes and told them to let him know how she was at 10 o'clock. In the meantime she died. Strychnine was kept in a bottle, marked "Poison," on a shelf in the surgery, and was not kept with any non-poisonous matter, but was put away with other poisons. He saw the strychnine on the Sunday before in its usual place, together with other poisons. He always found Mr. Owen Jones to be careful.

Mr. Owen Jones said he was an assistant to Dr. Evans, and had filled that position for nearly five years. He had no qualification. He gave deceased a powder, which he thought was croton chloral. He took hold of the bottle and weighed 10 grains of the powder, but did not look at the label, thinking the bottle would be in the same place as usual. The strychnine-bottle was a new bottle, and was close to the chloral. He never used strychnine, and never saw that bottle there before.

Dr. Evans said that the strychnine-bottle had been on the shelf about a fortnight before this happened. Mr. Owen Jones spent most of his time at a branch surgery, but he occasionally attended there.

The Coroner having summed up, the jury considered the evidence in private, and ultimately returned the following verdict:—"Death from poisoning by strychnine, dispensed in mistake for croton chloral by Mr. Owen Jones. We find that the manner in which the poison was dispensed was negligent and deserving of censure, but we are of opinion that the negligence did not amount to criminality."

Butter of Antimony Poison.

An innkeeper named Luke Hoyle, 46 years of age, of Mount Tabor, near Halifax, got up in the night, went downstairs, and drank some butter of antimony from a bottle, came back to bed, told his wife he felt unwell, and died the same day. He had bought the stuff the day before from

Mr. Farr, chemist, Halifax for the cow's feet, and it was labelled "Poison." The jury found that the "man died from the effects of an overdose of butter of antimony, administered by himself, but with what intent there is not evidence to show."

Fire.

Mr. F. Appleby, chemist, Retford has just come through "a near thing" in the shape of a shop-fire. Cause, the conventional one—boy, lamp, and barrel of spirits. The lamp dropped, set fire to the spirits, and had it not been for the neighbours' exertions, Mr. Appleby would not have managed to put the conflagration under.

A Bovine Visitor.

Mr. Frederick Warren, chemist, of Moulsham, Chelmsford, had a visit from a cow the other day. It was making straight for the back shop, when Mr. Warren escorted it out the way it came in.

Chemicals and Thames Water.

At the meeting of the London County Council on Tuesday, the Main Drainage Committee reported that under the authority given to them by the resolution of the Council of March 13, 1891, they had engaged an expert to make observations on the organisms in sewage and sewer-air under various conditions and the effect thereon of antiseptics or other chemicals. They considered it desirable that these investigations should be continued in the direction of ascertaining the effects produced by organisms on sewage, and whether the conditions of the air in a small experimental sewer with intermittent flows of sewage were similar to those found to exist in large sewers, also as to the condition of sewer-air in stagnant sewers and at the pumping-stations and other places where abnormal conditions exist. For this purpose it would be necessary that the services of the expert, Mr. J. Parry Laws, should be retained, and they recommended—"That, subject to an estimate being submitted to the Council by the Finance Committee, as required by the statute, we be authorised to retain the services of Mr. Laws, at a cost not exceeding 105*l.*" This was agreed to.

A Semi-jubilee

The Nottingham and Notts Chemists' Association was founded on December 10, 1868, and special reference will be made to the fact at the twenty-fifth annual dinner, which is to be held at the Masonic Hall, Goldsmith Street, on Wednesday, December 7, at 8.30 p.m. Tickets for the dinner can be obtained from Mr. W. Gill, 207 Radford Road, or any other officers of the association.

A Doulton Exhibition.

This week Messrs. Doulton & Co. have a special exhibition in their showrooms on the Albert Embankment, S.E., the *pièce de résistance* being a fine memorial statue of the late Henry Fawcett, M.P., which Sir Henry Doulton has presented to Lambeth for erection in Vauxhall Park on the spot where "The Lawns" (the house formerly occupied by Mr. Fawcett) now stands. The statue has been designed and modelled by Mr. George Tinworth. The entire height of the Memorial is about 16 feet. The pedestal measures 8 feet by 4 feet at the base, is 7 feet 6 inches high, and will be placed on a wide terra cotta step. On the sides of the pedestal are eight bas-reliefs containing subjects appropriate to Mr. Fawcett's character and work, four representing the virtues—"Courage," "Sympathy," "Justice," and "Truth"; three others relating to the Post Office—"Receiving Good News," "Receiving Bad News," and a female post-office clerk; and the last panel representing "India," in which Mr. Fawcett took an active interest. The group surmounting the pedestal represents Mr. Fawcett as seated, attired in professorial robes. The likeness is excellent. Behind him stands a figure of Victory, with extended wings and holding out a wreath of laurel. Along with this are exhibited a large number of Mr. Tinworth's famous panels representing Scriptural subjects. These are to be sent to the Chicago Exhibition, with another piece of Mr. Tinworth's—a magnificent vase (still unhacked) of quite original design, the outstanding feature being a series of medallions representing the sovereigns of England from the dawn of the Christian era to the present day. An exceptionally choice selection of "Doulton ware" Lambeth

faience, Burslem china, &c., is also to be sent to Chicago. The various pieces are typical, and there is scarcely any duplication to be seen in the whole of the collection, which is an excellent example of how art has been combined with modern science for the production of things of beauty. For example, amongst the Burslem ware (rarely to be seen at Lambeth) the production of unique glazes can be seen in several stages, the final stage showing a surface of pearl-like lustre. In the same case there is a fine Dante vase which is valued at 400/. Anyone who has still the opportunity of calling at Lambeth this week should not fail to see the exhibit.

The Chemists' Counter Tempted Him.

On November 18, at the Southampton Borough Police Court, George Cordey, 26, cook on the ss. *Orinoco*, R. M. Co., was charged with stealing 1 bottle of Eno's Fruit Salt, 1 bottle of Lamplough's Saline, 2 bottles of lime-juice and glycerine, 1 bottle of hair-wash, 1 bottle of smelling-salts, 1 jar of pomade, and 1 bottle of hair oil, the property of James Turnbull Rubie, chemist, of 19 Bernard Street, Southampton. Mr. Rubie, who identified the articles as his property, valued them at about 7s. A shop-boy said the prisoner came into the shop when he was there alone, and took the articles from the counter. He called his master, who ran after and overtook the prisoner, who then threw something behind him. A little girl picked up the jar of pomade and handed it to him. Mr. Rubie took the prisoner back to the shop and gave him into custody. Prisoner elected to be summarily dealt with, and said he only came home from sea the same morning and had too much to drink. He did not remember anything about it. As it was his first offence prisoner was fined 40s., including costs.

The Wrong Bottle.

Sarah Ann Shore, aged 68, late of 40 Cedar Street, Cheetnam, had been ailing, and a doctor who attended her prescribed some medicine and lotion. The latter was for application to her left side, and was labelled "Poison." She took the lotion instead of the mixture and died.

At Portmadoc, Ann Jones, a school-girl, was ill with scarlet fever. Her stepfather was at the same time suffering from sleeplessness and religious melancholia, and was attended by Dr. Griffiths. Dr. Roberts, Dr. Griffiths' assistant, made up a prescription for both patients, the stepfather's containing opium. The bottles were different, and there were different labels. The mother gave the daughter four tablespoonfuls of her father's opium mixture, and she slept into death.

Smoking Concert.

Messrs. Barron, Harveys & Co.'s cricket club had an enjoyable smoking concert in the Queen's Arms Tavern, Cheapside, last Friday evening. Mr. S. C. Gibbs was the chairman, and the programme included songs and pianoforte, mandoline, and violin solos.

Giving Laudanum to Children.

The infant child of Charles Thompson, of Sheffield, was weak and troublesome, and its grandmother—Mrs. Grattan—gave it a dose of landanum—she could not be sure how much, but not more, she thought, than 3 drops. She had been accustomed to give the drug to her husband and children without harm, and she was surprised when her grandson became convulsed. Dr. Hargreaves was summoned and prescribed, but the child died from, the doctor certified, "Debility from birth and a dose of landanum." At the inquest on Saturday the Coroner said 1 drop was sufficient to have killed the child, and Mrs. Grattan deserved punishment; but as there was no chance of obtaining a conviction the verdict was that the laudanum was administered with no felonious intent.

Profits on a Medical Invention.

In the Westminster County Court on Tuesday, before his Honour Judge Bayley, in the case of Lyall v. Hillock, the defendant applied to set aside an order of committal. The defendant, Mrs. Mary E. Hillock, stated that she carried on business in Berners Street, W., as

the proprietor of an article known as the "Medical Electrode," which was an invention for the cure of deafness and loss of sight. Trade had been very dull, however, for some time past, and that was why she had not been able to meet her liabilities. She now asked that further time might be given her to pay this judgment debt, in respect of which an order for her committal to Holloway had been made. If an extension of time was given her she would pay it, but at present it was impossible. The Judge ordered the warrant of committal to be stayed for a further term of one month.

Weights and Measures.

A report has just been issued by the Board of Trade on their proceedings and business under the Weights and Measures Act's, 1878 and 1889. From the last examination of the Imperial standard pound weight it appears to have decreased in weight since it was restored and legalised by the Standards Act of 1855. Although the amount of diminution is not appreciable from a trade point of view, the Board are taking into consideration the question of restoring this standard as provided by section 6 of the 1878 Act. The Board have found on inquiry that the provisions of the Acts are well administered by most local authorities, but in the smaller boroughs there has been reluctance to carry out the requirements of the Acts, owing to expense. In a few districts visited, both county and borough, the requirements had either been entirely disregarded by the local authorities, or the administration had grown so feeble as to afford practically no protection whatever to the purchasing public or to traders.

Carbolic acid Poison.

Mary Burton was a servant in the employment of Mr. Theakston, a veterinary surgeon, of Gainsborough. She was suffering from toothache, and on Friday Mrs. Theakston gave her some cotton wool soaked with carbolic acid to place on the tooth, and this relieved the pain. The following morning the mistress went out, and when she came back found the girl on the hearthrug unconscious, and by her side a bottle, in which still remained some carbolic acid. Attempts at resuscitation were made, but unavailing. At the inquest Dr. Cassan deposed that death had resulted from carbolic-acid poisoning, and the jury returned a verdict of death by misadventure. They added an expression of opinion that Mr. Theakston should keep such poisons in safe places not accessible to servant-girls. The bottle was not labelled "Poison."

Mary Ann Maughan, 17, daughter of a policeman at Ormskirk, committed suicide with carbolic acid a few days since.

A man was found in Hyde Park last Saturday morning dying, with an empty bottle by his side which had contained carbolic acid. He was taken by the police to St. George's Hospital, where he died. Papers found on him indicated that he had come from Newcastle-on-Tyne.

An inquest was held at Brighton on Tuesday on the body of Rebecca Baker, a married woman, who committed suicide by drinking carbolic acid. The jury returned a verdict of suicide during temporary insanity, and added a rider to the effect "that it would be advisable to place some restriction upon the sale of such poisons to young children."

General Medical Council.

The autumn meeting of the Council commenced on Tuesday, and continues throughout this week. One of the subjects which the Council is to consider is the legality of the club system of medical treatment. In the large industrial centres in England there are clubs which employ salaried medical officers, retaining them for their exclusive service, the clubs themselves dividing the profits. There is a desire in medical circles to put down this practice.

A Squah Concert.

On Monday evening a concert was given at Kingston Drill-hall to bid farewell to Squah, the programme being carried out by a number of London artists, including Professor Baildons, Mr. Will Downes, Professor De Lara, and Madame Hartley Snow.

Scotch News.

Personal.

Mr. H. Bellyse Baildon, M.A., has, since he abandoned pharmacy, gained a considerable reputation as a lecturer. He gave the first lecture at the Edinburgh Literary Institute last week, the subject being "Bavaria and the Passion Play," and elsewhere, in lecturing on "Our Colonial Continent," he gave expression to some original views on gambling, these having special relation to the gold-fever. Mr. Baildon and Mr. Robert Cox (of J. & G. Cox, glue and gelatine manufacturers, Gorgie) have been elected members of the Midlothian County Council.

Mr. Adam Alexander, chemist, Aberdeen, has gained by competition the Strachan Medical Bursary, founded by the late Alexander Strachan, Esq., of Moresat, and which is under the control of the Aberdeen Medico-Chirurgical Society.

Dr. J. M. Macfarlane, who for several years has been assistant to the Professor of Botany at the Edinburgh University, and lecturer on the subject at the Royal (Dick's) Veterinary College, has been appointed Professor of Biology in the University of Pennsylvania. Dr. Macfarlane is well known to Edinburgh pharmacists, and is the only "outsider" who has ever been asked to lecture before the Edinburgh Chemists' Assistants' Association, whose particular boast it is that its work is carried on by its own members.

Mr. J. Laidlaw Ewing and Mr. Peter Boa will be entertained to dinner in the Royal Hotel, Edinburgh, on the evening of Friday next, in recognition of their services as Vice-Chairman and Secretary respectively of the local executive of the Pharmaceutical Conference.

Mr. James Mackenzie, F.S.A., chemist, Edinburgh, who is known to be an ardent bibliophile and collector of antiquarian curiosities, is the possessor of some original Burns MSS. (poems and letters) the authenticity of which is disputed. There has been quite a lengthy and warm correspondence about the MSS. in the Ayrshire papers.

Mr. R. Urquhart, secretary to the Provident Dispensary, Marshall Street, has been ordered abroad for his health, and is leaving for South Africa. His medical friends are to entertain him to dinner in the Royal Hotel before he goes.

An Edinburgh Trade Association.

The proposal to form a Trade Association among Edinburgh chemists, referred to in our issue of October 15, is now assuming a practical shape, and a meeting for its consideration will be held on December 8. As has already been stated, its objects, as contemplated by the promoters, will be to consider questions affecting the trade generally on which there would be likely to be unanimity, and on which combined action could be taken if necessary.

French Pharmaceutical News.

(From our Paris Correspondent.)

GLYCERINE FOR GALL-STONES.—In a recent paper read before the Paris Academy of Medicine, Dr. Ferrand recommends glycerine instead of olive oil for the treatment of gall-stones. He has found that doses of 10 grammes taken in potash-water generally relieve pain, while doses of 25 grammes in most cases generally remove it. Dr. Ferrand does not go so far as to say that glycerine will dissolve the calculi, but he considers there is no better method of treating hepatic colic.

THE NEW MEDICAL LAW.—The law on the practice of medicine was a subject of debate in the French Senate last Tuesday. That body has on three occasions during the past two years returned the Bill to the Lower Chamber for alteration. The only point that now gave rise to discussion was Article 11, by which it was intended to prevent the simultaneous practice of medicine or dentistry and pharmacy.

M. Cornil, the reporter, explained that this would be more in its place in the proposed new law on pharmacy; after some remarks by Dr. Brouardel, the Senate approved this view, and then proceeded to pass the Bill in its entirety.

A PLETHORA OF PRIZES.—If M. Marcel Delépine keeps up the promise of his youth, his name will probably rank high in the pharmaceutical world ten or fifteen years hence. Among the prizes awarded to laureates of the *Ecole Supérieure de Pharmacie de Paris* for the session 1891-92, M. Delépine alone took four—to wit, general work, the first prize (silver medal and 75f. worth of books); among the second-year scholars in practical chemistry, first prize (silver medal) for physics; scholarships—the *Prix Lebeault* (500f.) and the first of the two *Prix Henri Buignet* (600f.).

DYNAMITARDS AND PHARMACY.—It seems impossible for pharmacy to rid itself of the machinations of the dynamitards. On this occasion it is an English pharmacist, Mr. Alfred Coleman, formerly of Norwich, who has been made their victim, fortunately only as regards finances. Mr. Coleman occupied a large *appartement* in a well-appointed house at 59 Avenue Kléber. Unfortunately, in an ill-advised moment the proprietor accepted the Public Prosecutor as a tenant. Then the anarchists threatened to blow the house up. The other tenants immediately gave notice to leave, and out of respect for his wife's feelings Mr. Coleman did likewise. But the wily landlord managed to find a flaw in Mr. Coleman's letter advising his intention of leaving. The consequence is that after a lawsuit this gentleman has to pay the rent of his *appartement* for a further period of three years. He mentioned incidentally to the representative of THE CHEMIST AND DRUGGIST a few days ago that his law and other expenses in this connection will amount to 400f.

A COMMITTEE OF DISCIPLINE.—The Syndical Chamber of Pharmacists of the First Class of the Seine Department has had under consideration for some time past the formation of a "Committee of Discipline." The object of the committee is to watch closely any cases of fraud in the sale of medicaments, and to consider any complaints that may be brought against pharmacists. If such complaints are well founded, the delinquent will receive a friendly notice announcing that a second offence may be followed by prosecution. From the "constitution" it appears that the nine active members of the committee must have been the proprietors of a retail pharmacy for a period of ten years, and they will be elected for a term of three years. The president, vice-president, and secretary of the Chamber will be *ex officio* members of the committee. The committee will meet once a month. The implicated products will be submitted to a professor of the School of Pharmacy for analysis. All the working-expenses incurred by the Committee of Discipline will be borne by the Syndical Chamber. M.M. Melville, Bocquillon, and Houdé are respectively president, vice-president, and secretary.

THE PERFUME OF FLOWERS.—At the Academy of Sciences on Monday, November 21, M. Méuard, a young botanist, read an interesting paper on the question of the origin and manner of formation of perfume in flowers. By a minute microscopic study of the different parts of flowers, he has discovered that the essential oils which produce odours have their seat in the inner surface of the flower-cup and the corolla. As a rule only a very few drops of essence are to be found on the outside. On the other hand, the colour-pigments and the tannin from which they are formed abound. Following up the development of flowers, M. Méuard remarked that the chlorophyll is the principle from which these products are derived. In the first place it changes to a glucoside, a substance similar to tannin; but the chemical action does not stop here. While on the outside, exposed to light and air, the glucoside serves for the formation of pigments and tannin, on the inside, which is protected in the bud, it is transformed into essential oils, and by rapidly oxidising, when the flower is in bloom, the perfume is produced. A perfume is fine in proportion to the strength of the essential oil—i.e., the more the secondary products derived from the chlorophyll are eliminated from it. This explains why white flowers are generally odorous, why green flowers have no smell, why composite flowers (rich in tannin) have a disagreeable odour, and why artificial white lilac and forced roses have a finer perfume.

Foreign and Colonial News.

FAILURE OF A NEW YORK PERFUMERY HOUSE.—The firm of Munro & Baldwin, of New York, perfumers and agents for Zeno & Co., London, have failed. Their condition as reported to creditors (says the *Oil, Paint, and Drug Reporter*), is a very deplorable and unsatisfactory one, the liabilities being very high and assets extremely low.

DISTRESSED RUSSIAN PHARMACISTS.—The Council of the St. Petersburg Pharmaceutical Society have issued an appeal to all Russian pharmacists for contributions to enable them to alleviate the distress of the many broken-down provincial pharmacists who are drifting into the Russian capital and applying for help. The condition of pharmacy in Russia appears to be very miserable, and, although a pension fund has been projected, funds are immediately wanted to cope with urgent distress.

TIN v. EUCALYPTUS OIL.—A tin-mine of enormous richness was reported to be discovered the other day in Tasmania, with the result that all the working men about Hobart rushed off to the locality of the reputed deposits there and then, leaving the work to take care of itself. The hands employed by the Tasmanian Eucalyptus Oil Company left their work on the first rumour of the discovery, and although the manager kept the whistle going at intervals all day, not a man responded. The supposed tin-mine proved a fraud, and when our report left the manager of the Eucalyptus Company was expecting the return of his men.

IMPORTERS' DIFFICULTIES IN TURKEY.—Importers—particularly of foodstuffs and pharmaceutical articles—in Constantinople are complaining of the loss inflicted upon them by the long detention at the Custom House of goods which the authorities, on the allegation of adulteration, order to be submitted to chemical analysis. It is said by the *Levant Herald* that the fault rests with the analytical chemists of the "Bureau Medical," who, though occasionally prompt enough, spend weeks and months over their analysis when the case lacks the element that would quicken their interest in it. The "element" here euphonistically referred to is probably of the same nature as "aurum," well known locally by the name of "baksheesh."

U.S.A. TRADE-MARKS.—The following were registered at Washington on November 8:—Representation of a trefoil figure, for camphor, by Gribble & Nasb, New York; "Indapo," for pills, by Harris C. Wilkinson, Chicago; "Solomon's Wonder," for a liniment, by Solomon Eskridge, Rockwood, Tenn.; "Dr. Johnson's" over a monogram device, for sarsaparilla tonics, by A. C. & G. F. Weber, Albany, N.Y.; "Antithermal," for powder for allaying fevers, &c., by H. J. Parker, Clayton, Ill.; "Genetica," for a remedy for gonorrhoea and gleet, by E. H. Davis, Elmira, N.Y.; "Bovine," for medicinal remedies, by the Capital Drug Company, Augusta, Me.; "Antifetor," for deodorising-powder, by C. W. Chancellor, Baltimore, Md.; "Hite's Magic Cream," and figure of an open hand, for toilet cream, by James F. Hite, Owensborough, Ky.

MEDICINE-TAXES IN SPAIN.—The Barcelona Pharmaceutical Society (we learn from *El Memorandum*) have held a meeting to consider a clause in the new Spanish Revenue Bill enacting that every packet of mineral waters or patent medicines (*especificos*) offered for sale, must bear a Revenue stamp of 10 Céntimos—i.e., 1d. It was decided to memorialise the Government against the Bill, in the first place, on the ground that the sale of all patent medicines is nominally illegal in Spain, and that it cannot have been the intention of the Government to levy a tax that would legitimise an illegal trade, hence the only explanation of the Bill is that it intends to include all compound medicaments under the name *especificos*, and thereby impose an intolerable tax upon pharmacists. The 10c. mineral-water tax is expected to bring in about 30,000l. a year.

CANNABIS INDICA IN INDIA.—A former officer of the Bengal Civil Service, writing to the *Times* on the subject of the evils arising from the use of ganja in India, states that the only parts of the country where Indian hemp is cultivated are three districts in Lower Bengal, its cultivation

elsewhere being forbidden. The area of cultivation is included within a radius of about sixteen miles. The cultivators are required to take out a special licence from Government, and the storage, classification, transport, and retail sale of the drug are supervised by Government officers and regulated by Government rules. The yearly revenue derived from the sale of ganja is about 150,000l., and the quantity consumed in Lower Bengal about 6,000 maunds of 82 lbs. weight. To its use (says the correspondent) can be traced many of the worst crimes in Lower Bengal, and to indulgence in it are due five times as many cases of insanity as can be attributed to spirits and opium combined.

QUININE FOR THE MILLION IN INDIA.—Thanks to a suggestion made by Mr. A. C. Tute, magistrate of Dinagepore, says the *Madras Mail*, there seems to be every prospect of a cheap agency being arranged for supplying people in Bengal with quinine. The first suggestion was that passed medical students, who are to be found in most villages, should be the distributing agency, a drug almirah being opened at each principal post office. But this was when it was proposed to supply other drugs as well as quinine. The Government has, however, decided to supply quinine only, and it has been determined that the public shall pay directly for the quinine instead of getting it at the expense of the District Board. Postmasters will be utilised for the distribution of the febrifuge, and are to be remunerated by a commission of 1a. in the rupee on sales.

Next Week.

Secretaries of Associations and Societies should give the Editor post-card notice of meetings to be held, and the business to be transacted thereat, b Wednesday of the week before.

WEDNESDAY, NOVEMBER 30.—*The Royal Microscopical Society* will hold a *conversazione* in the Banqueting Saloon, St. James's Hall Restaurant, at 8 P.M.

WEDNESDAY, NOVEMBER 30—*Edinburgh Athletic Club.* Run from J. Speed's, 2 Howard Place, Canonmills, at 8.45 P.M.

THURSDAY, DECEMBER 1.—*Chemical Society*, at 8 P.M. "On the Formation of Orcinol and other Condensation Products from Dehydracetic Acid," by J. Norman Collie. "Isolation of Two Predicted Hydrates of Nitric Acid," by S. U. Pickering. "Anhydrous Oxalic Acid," by W. W. Fisher. "Observations on the Origin of Colour and of Fluorescence," by W. N. Hartley. "The Origin of Colours—Azo-benzene," by H. E. Armstrong. "The Reduction Products of *aa'*-dimethyl-*aa'*-diacetylpentane," by Dr. Kipping. "The Products of the Action of Sulphuric Acid on Camphor," by Drs. Armstrong and Kipping. "Methods of Showing the Spectra of Easily Volatile Metals and their Salts, and of Separating their Spectra from those of the Alkaline Earths," by W. N. Hartley.

THURSDAY, DECEMBER 1.—*Chemists' Assistants' Association*, 103 Great Russell Street, W.C., at 9 P.M. Mr. W. R. Mitchell on "Six Months of Foreign Pharmacy."

THURSDAY, DECEMBER 1.—*Dundee Chemists' Assistants' Association.* Mr. J. Laidlaw Ewing will lecture on "A Holiday Trip to Russia, Finland, and Sweden," in Young's Hall, Nethergate.

OUR GERMAN FRIENDS (says the *Optician*) are hardly up to the mark in writing English as "she should be wrote." The following is a copy of a letter sent from a firm in the Thuringen district. "Dear Sir,—You receive my list C under separat-cover on these prices I to them 20 per cent. discount give. It is discount-ness by neat prices find not employing. I enclosed you yet price the goings sorts thermometer find, which I after England much send. Lists across thermometer send I late you as these yet are in work, after ready position also to. Lour further orders soon expect—" This needs some thinking over before one can arrive at the proper meaning.

The Winter Session.

CHEMICAL SOCIETY.

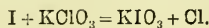
SIR HENRY E. ROSCOE formally opened the new session on Thursday, November 16. The rooms in Burlington House have a very different aspect since the alterations have been completed. In the theatre the old tiers of seats have gone, and all have been brought down to the floor-level. The platform is placed from east to west between the doors, and the seats are arranged in the same fashion, with several benches across the room at each end. The electric light has also been introduced, so with new paint, new bench-coverings, &c., everything looks very brilliant. Professor THORPE read the first paper, on thion sulphonic acid, an important compound of

FLUORINE.

This acid resembles chlorosulphonic acid in some respects, but boils at a higher temperature. It is a colourless liquid, attacks glass, and explodes when brought into contact with water. The properties of the compound were very fully described. In the course of a discussion which followed, Mr. PAGE asked if the isolation of fluorine by Moissan had been confirmed. To that Professor THORPE replied that he would be afraid to say how much Government money he had spent on that matter, for in the Royal College of Science they had repeated Moissan's experiments most carefully, but had failed to obtain the same results. He had written an account of all he had done, and asked Moissan to indicate wherein they were wrong, or in any other manner to specifically show how they could confirm his results; but Moissan would not do so—that is, he only replied in very general terms. So far, therefore, the French chemist's statements were without confirmation. Professor Thorpe then gave the gist of a note on

THE REACTION BETWEEN IODINE AND POTASSIUM CHLORATE.

These substances are used in making iodine monochloride, and the text-books give a very complicated equation to explain the reaction. Noticing that the yield of monochloride was small and extremely variable, Professor Thorpe carried out the experiment under constant conditions, and found that there is none of the monochloride formed at all, but that the iodine drives all the chlorine out of the chlorate, so—



This is very bad behaviour on the part of iodine: nevertheless, the decomposition is such, and it is almost quantitative. In the first of these papers Professor Thorpe had Mr. W. Kirman associated with him, in the second Mr. G. P. Perry.

Dr. W. H. PERKIN, sen., next took the audience through the general results of

OVER 4,000 EXPERIMENTS

on sulphuric, nitric, and phosphoric acids and salts thereof. These were in the molecular and magnetic rotations of solutions of the compounds, and they were made with the view to determining how the acids exist in solution, especially in view of the ion hypothesis. In the result the magnetic rotation was found to differ from the assumed hypothesis, and from the molecular rotation; but in the latter case, and as regards sulphuric acid, it was clearly brought out that there are two breaks in the curve, one agreeing with $H_2SO_4 \cdot H_2O$, and the other with $H_2SO_4 \cdot 4H_2O$. Dr. JAMES WALKER pointed out that Dr. Perkin had made no allowance for variable magnetic conductivity in the different solutions with which he had worked, and he thought that if that were done it would be found that the two sets of results would be in practical accord. Professor SPENCER PICKERING followed with another paper on

SOLUTIONS OF SULPHURIC ACID,

in which he showed, from the refractive indices and magnetic rotation, that 80-per-cent. sulphuric acid consists mainly of monohydrated acid, $H_2SO_4 \cdot H_2O$; 60-per-cent. tetra-

hydrated acid, $H_2SO_4 \cdot 4H_2O$; and 30 per-cent. hexahydrated acid, $H_2SO_4 \cdot 6H_2O$. Mr. Pickering is the principal exponent in this country of the hydration theory of solution, and he now gave a further example of his enthusiasm in a paper on

THE HYDRATES OF ALKYLAMINES.

By freezing solutions of methylamine and its homologues he obtained the amines in conditions of hydration varying from the half molecule to 6 molecules H_2O , according to the temperature. But all this, Professor THORPE explained, or much of it, had already been done by the late Professor Guthrie about ten years ago, and he had been accustomed to take advantage of the facts in his lecture experiments. Thus he showed that if we take a solution of methylamine in water and cool it to a certain point the solution becomes milky; cool it further, and it becomes clear again. He further showed, by the aid of the electric lantern, that pressure has a similar influence, thus showing that Boyle's law is as applicable to liquids as to gases, which fact coincides with Van't Hoff's and Ostwald's theory that there is no distinct line of demarcation between gases and liquids.

Professor W. RAMSAY and Miss ASTON communicated a note on "The Atomic Weight of Boron" (see THE CHEMIST AND DRUGGIST, August 13, 1892, page 241). By the borax method the authors now find that the atomic weight is 10.995—practically 11.

Several papers were taken as read.

MIDLAND COUNTIES' CHEMISTS' ASSOCIATION.

A MEETING of this Association was held at the Mason College on November 17, when Mr. J. F. Liverseege read a paper on "The Sun and Planets: Their Distances, and How they are Measured." The paper was illustrated by means of the lantern with numerous slides and diagrams and the spectroscope. Mr. C. Thompson (President) was in the chair, and there was a good attendance of members and their lady friends.

CHEMISTS' ASSISTANTS' ASSOCIATION.

THE business routine of the members of the Chemists' Assistants' Association was interrupted on Thursday, November 17, by a very enjoyable *conversazione* at the Portman Rooms. A large number of guests were present. The first part of the programme consisted of an exhibition of pharmaceutical curios, very nicely arranged by Mr. J. C. Stead. Amongst the exhibits was a fine collection of pure chemicals sent by Messrs. Tyrer & Co. These comprised bismuth, mercury, and lithium salts, benzoates, hypophosphites, phosphates, and phosphoric acid, salts of ichthyol, and many organic compounds. Mr. Tyrer also sent a new form of a chemical balance (Betting), which can be manipulated without continually opening and shutting the case, by means of a system of levers, each bearing its separate weight. The publisher of THE CHEMIST AND DRUGGIST sent one of the rare first volumes of this journal, the octavo size which was adhered to for several years before the present size was adopted, and along with that he placed copies of the last Winter and Summer issues, the latter of which contained more matter than the whole of the first volume. Of interest also were the few specimens showing the evolution of the DIARY. First there was the small octavo size, that of 1870 containing the following articles, in addition to the diary matter:—"The Prices of Medicines," by Daniel Hanbury, F.R.S.; "Plain Directions for Testing Urine," by Professor Atfield, Ph.D., F.C.S.; "Mutual Help," by George Frederick Schacht, of Clifton; "English and Foreign Formule," by Joseph Ince, F.L.S., F.C.S.; and a number of special short articles on such subjects as "Headaches" and "homeopathic pharmacy." In the following year the DIARY was changed to crown octavo, and the special feature was a long article on "Chemical Tests for Medicinal Articles," by Sydney W. Rich. The 1873 DIARY was uniform in size with THE CHEMIST AND DRUGGIST, and it marks the style which has not since been departed from, the diary pages being the same as now, the last pages being ruled and printed as a blank price-list. It contained 126 pages of literary matter and advertisements: the DIARY which we are to distribute to our subscribers in a few days contains 460 pages. The 1873 one weighed

15 oz.; that for 1893 dips the scale at 2 lbs. 13½ oz. A copy of the "Corner for Students" certificate was also exhibited. Messrs. J. Bell & Co. sent some fine arrows poisoned with woorari. The Pharmaceutical Society exhibited some very fine specimens of cinchona-bark, and a set of the so-called "terpeneless essences." Messrs. Corbyn & Co. showed a number of old pharmaceutical documents, and an old bell mortar dated 1536. A number of old apothecaries' pots were sent by Mr. Martindale and Mr. John Hodgkin. The other exhibitors were Messrs. Burroughs, Wellcome & Co., Miss Hicks, Mr. Peter MacEwan, and Messrs. S. Maw, Son & Thompson. The remainder of the evening was filled up by a concert arranged by Messrs. Robins and Robinson, which was a great success, and a dance which lasted well into the small hours of Friday morning, under the able management of Mr. T. W. Martin.

A PHARMACEUTICAL ASSOCIATION IN CAMBRIDGE.

ON Wednesday, November 16, a meeting of the chemists' assistants' and apprentices of Cambridge was held at Mr. Addison's house, Market Hill—Mr. Arthur Deck, junior, in the chair. It had been arranged that a series of about six meetings should take place during the first part of the winter months for the reading of papers of pharmaceutical and scientific interest, followed by discussions. It is hoped, by thus introducing the matter to those interested in pharmacy in this town, at the end of the series a way can be seen to forming a Pharmaceutical Association.

At the meeting on November 16, an excellent inaugural address was given by Mr. ALBERT IVATT, B.A., M.P.S., F.C.S., of Christ's College, which was received with especial interest, as Mr. Ivatt holds the appointment of Lecturer in Pharmaceutical Chemistry to Emmanuel, Clare, Sidney, Sussex, and Christ's Colleges.

A hearty vote of thanks to Mr. Ivatt for his address was moved by Mr. HARRY CHURCH, and seconded by Mr. H. D. FUGE, of Trinity College, late Bell scholar and demonstrator at Bloomsbury Square. A discussion on the need of such a Society in Cambridge, and propositions for furthering the scheme, followed, in which Messrs. Elborne, of Trinity College (late Bell scholar), H. F. Cooke, E. S. Peck, C. S. Addison, Turner, Branch, S. H. Pryor, B. S. Campkin, A. Ivatt, and A. Smith took part. Votes of thanks to Mr. Addison for the room and to Mr. Deck for presiding were passed. A second meeting was held on November 24, when a paper on "Alchemy" was contributed by Mr. E. S. Peck.

DUNDEE CHEMISTS' ASSISTANTS' ASSOCIATION.

Mr. W. MAIR lectured last Thursday evening (November 17) on "The Botany of the Minor Schedule," explaining a scheme which he had found valuable both in studying and teaching botany. He thought that students should make an early start, and they could begin anywhere and with the commonest objects—with the flower-pots in their own window-sills if they had no botanic garden. He reminded them that the true aspect of the subject was the physiological—to realise that every plant is a life and regard it as such. They should read their botany from the plants themselves, he said, and not from books; but to do this they had first to learn the alphabet, in order to be able to express themselves in the terse terms of modern botanical nomenclature. From this they would proceed to the internal structure, seeing everything for themselves and beginning with simple things, coming then to classification, and reading now and again, for the purpose of keeping up enthusiasm, treatises on such subjects as the wonderful adaptations of plant life—*e.g.*, insectivorous plants and the like. He had submitted this scheme to several well-known pharmaceutical botanists, and they were all in complete agreement with it. Mr. Corder wrote to say that after fifty years of botanical study he had come to realise how little he knew. So that it was well said by one very recently, "If the footprints of His servants are so glorious, what must be the All Wonderful Himself?" Mr. Jack deplored the want of practical knowledge exhibited by quite 90 per cent. of the candidates who presented themselves for examination. The cause of the

great grievance of the examiners was, he thought, that those cramming shops which flooded them with their pupils were inadequately supplied with the necessary materials and appliances by which they could teach their subjects—especially botany and chemistry—properly. Mr. Grierson wrote expressing the opinion that the examiners had been largely to blame for the dry-as-dust views of botany which were held by many students. This had arisen in some cases through their being bookmen and not naturalists. Mr. Druce was thoroughly in sympathy with any such scheme to simplify the study of botany and increase the interest of students in it. In conclusion, Mr. Mair advocated University training for pharmaceutical students, stating that, although the recent unfortunate experience in this direction at Owen's College might be taken to indicate that they were not quite ready for it, it would ultimately be found under the altered conditions of pharmacy to be the most desirable course.

THE PHARMACEUTICAL SOCIETY OF IRELAND.

THE second of the evening scientific meetings of the Pharmaceutical Society of Ireland will take place on Tuesday, December 6, at 8 o'clock, in the Society's house, 4 Mount Street, Dublin, when a lecture will be delivered by Dr. E. McDowel Cosgrave on the subject of "The Nerves: Their Use and Abuse."

All these meetings are open to pharmacists, students, and their friends.

THE SHEFFIELD PHARMACEUTICAL AND CHEMICAL SOCIETY.

ON Wednesday night there was a numerous-attended meeting of the members of the Sheffield Pharmaceutical and Chemical Society to hear a paper read by Mr. Preston, entitled

PRESENT-DAY INTERPRETATION OF THE PHARMACY LAWS: A REVIEW OF OUR POSITION.

Mr. R. WATTS, President of the Society, occupied the chair.

At the outset Mr. PRESTON said his intention was to review the various prosecutions, decisions, and views expressed by judges and coroners, together with the opinions expressed in the organs of the profession in the last five years. Commencing with the proceedings against Joseph Bailey in 1887, he passed in review all the more important cases in the interval, and gathered from the decisions given that a qualified man cannot give power to an unqualified man to keep open-shop, and that the sale of a poison must be made either under the direct supervision of a qualified man or by the qualified man himself. In the case of proprietary articles, it is essential that they be labelled with the name of the scheduled poison contained therein, and the name and address of the seller. In the case of supplying medicines to medical men it is essential to know them, to have a written order, and to enter the same. These precautions are also necessary in the case of the sales of poisons between one chemist and another. With regard to the Joint-Stock Acts the word "person" has a new interpretation, and has given an altered feature to their liability. He recommended his brother-pharmacists to loyally act upon the new interpretation of the Pharmacy Act, on the ground that it will be certainly for their benefit and for the greater safety of the public. The difficulties with regard to carrying out the Act are such as to terrify, and at first sight seem to be impossible to overcome, but with a closer acquaintance with them they become less formidable.

Mr. WARD said there could be no doubt that the pharmacist to-day was placed in anything but a pleasant position. The restrictions on the sale and compounding of poisons were such that it needed one to be constantly on the alert. He felt a difficulty in selling chlorodyne at all. He did not think it was requisite to label a medicine dispensed containing laudanum with the word "Poison."

Mr. HAINING was of opinion that some loophole should have been suggested by Mr. Preston for the unqualified assistant of a qualified chemist.

Mr. ELLINOR contended that the poison clauses of the

Pharmacy Act were imposed upon chemists against their will, and prosecutions under it should be made by the Government and not by the Pharmaceutical Society.

Mr. NEWSHOLME quoted the law with regard to chemists prescribing and dispensing medicines, and argued that they had not only a right to prescribe laudanum, but even prussic acid.

Mr. SHEEN (Mexborough) said pharmacists had a maximum of responsibility and a minimum of protection. He urged an amendment of the Pharmacy Act, and that the Pharmaceutical Society should make its desires known to members of Parliament.

Mr. MORRISON said there were many things with reference to the pharmacy laws that should be cleared up, and particularly with regard to prescriptions.

Mr. BRADWALL and Mr. A. R. FOX followed, and afterwards Mr. PRESTON replied on the discussion.

Legal Reports.

LIABILITY OF CARRIERS FOR DELAY.

IN the Wakefield County Court, last week, Mr. F. B. Crossley, chemical manufacturer, Wakefield, sued the Midland Railway Company for 16*l.* 10*s.*, the value of a special dye. The case had been partially heard, and was now completed. The facts were as follows:—Messrs. Baxter Brothers, of Bradford, ordered from the plaintiff's traveller, in April last, a keg of dye of special manufacture. This should have been received by the purchasers on April 16 in the ordinary course, but did not reach its destination until April 25, when it was refused acceptance.

Mr. Turner, who appeared for the defendant company, submitted (and quoted cases) that the plaintiff must prove, which he had not done, that his loss was more than the 2*l.* paid into court, after having done his best to dispose of the dye. Instead of doing this he had tried to make the railway company the purchasers. The contract on the part of the defendant company was to carry. No time was fixed for the delivery. It was the consignee's duty to realise, which he had failed to do.

His Honour pointed out that the article was not marketable.

Mr. Turner: He has never made any attempt to sell it.

The traveller admitted that something might be realised on the dye. He declined (in cross-examination by Mr. Turner) to state the price paid to the foreign manufacturers. He would write it down. [Written accordingly.] He had tried to sell it to the original dealers. They would not have it at any price. The dye, now that the season was past, was practically an unmarketable article. The quantity sent was 60 lbs., at 5*s.* 6*d.* per lb. He estimated the probable loss of plaintiff at 100*l.*, as he would very likely have sold a dozen more kegs had this one been delivered promptly.

His Honour, after looking over Mr. Turner's cases, said he must decide that the value had been reduced by 3*s.* 6*d.* per lb., and gave a verdict for the loss sustained, being 10*l.* 6*s.*, with costs.

DISSOLUTION OF PARTNERSHIP.—NOTICE TO DEBTORS.

AT the Halifax County Court, on November 16, Sarah Ann Cowgill, mother and executrix of the late Brian Booth Cowgill, chemist, Sowerby Bridge, sought to recover from Richard Ingham & Son 17*l.* 9*s.* 9*d.*, balance of account for goods supplied.

It was admitted that the goods had been supplied, and the defence was that the account had been paid to Abraham Cowgill, another son of the plaintiff, who claimed to be a partner in the business, and to whom the order for the goods had been given.

His Honour gave a verdict for 11*l.* 5*s.*, deducting an item of 5*l.* odd which had been paid to Abraham Cowgill by defendants before they received notice as to dissolution of partnership.

BEECHAM'S PILLS' SAILS.

AT the Eastbourne Police Court on November 18, Charles Hide, a boatman, was summoned under a by-law for painting on the sail of his boat a large advertisement, to the annoyance of residents or passengers.

The Town Clerk, who prosecuted, said the words of the advertisement were:—"The world's remedy; worth a guinea a box."

The Chairman: Are they Beecham's pills?

The Town Clerk: I presume so.

The Parade Inspector, in his evidence, subsequently said the words "Beecham's Pills" were on the sails.

Mr. Treacher (of Brighton) defended, and was asked by the Bench whether he appeared for the proprietor of the pills or the defendant.

Mr. Treacher: Well, I have received certain information from the proprietors of the pills.

After hearing the case, the Bench said if the defendant would give an undertaking that the advertisement should be discontinued they would only inflict a nominal penalty.

Defendant gave the undertaking, and was fined 2*s.*, with 18*s.* costs.

THE CONVEYANCE OF CHEMICAL MANURES.

IN the City of London Court, on Monday, before Mr. Julian Robins, Deputy Judge, Messrs. F. C. Hills & Co., 17 Philpot Lane, E.C., sought to recover the sum of 27*l.* 10*s.* from Messrs. B. & J. Shaw, of Hull.

Mr. Frederick Laing was counsel for the plaintiffs, and Mr. Scrutton for the defendants.

Mr. Laing stated that in December last the plaintiffs had several barge-loads of chemical manure waiting at East Greenwich to be loaded into a steamer and conveyed to Hull. They agreed with the defendants that the latter should send the steamship *Avalon* to Bugsley's Hole to take on board the four barge-loads. The defendants did not send the steamer within the prescribed time, owing to the captain having taken it to another wharf on the opposite side of the river, and the plaintiffs had, therefore, suffered serious loss.

The defence was that the reason the defendants' steamer did not get to its position by the time mentioned was because of the misguidance of the pilot whom the defendants took on board, but for whose fault the defendants were not responsible.

The Commissioner found for the plaintiffs with costs.

Bankruptcy Reports.

Re JOHN WILLIAM SENIOR, Barnsley, late of Ripon,
Chemist and Druggist.

APPLICATION was made to his Honour Judge Bedwell at Barnsley County Court, on Thursday, November 17, for the discharge of this debtor, now employed as an assistant in a chemist's shop at Barnsley. The Official Receiver (Mr. W. J. Clegg) said the case was a very bad one. Defendant filed his petition on December 22, 1891, and stated his liabilities to rank for dividend at 112*l.* 9*s.* 9*d.*; proofs admitted, 50*l.* 7*s.* 8*d.*; number of claims not yet admitted or proved, 60. There were no assets whatever, and the Official Receiver said he had realised 4*l.* No dividend had been or was expected to be raised for the unsecured creditors. The bankrupt's assets were not equal to 10*s.* in the pound, he had kept no books, he had traded after he knew he was insolvent, and had failed to account for his deficiency. He began business in July, 1887; in July, 1889, paid a composition—he did not know how much—in July, 1891, made an arrangement for the benefit of his creditors, his debts then being 1,132*l.* 5*s.* 2*d.*, and assets 120*l.* His liabilities were made up of creditors who would not accept the deed of assignment then made, and he filed his petition to free himself from his liabilities.

Mr. Rideal, who appeared for the debtor, said the case was not so bad when it was explained. Debtor began business in

1887 at Ripon, being then 22 years of age, with 300*l.* borrowed capital. In 1889 he arranged with his creditors, paying 10*s.* to 15*s.* in the pound, the costs running the amount up to a full 20*s.* in the pound. His assets were 1,300*l.* when he made the assignment, but the trustees could not dispose of the business as a going concern, and fixtures which had cost him 150*l.* and stock which had cost him about 600*l.* went for the sum of 130*l.* The creditors in the present bankruptcy were creditors who did not agree to the assignment then executed. He was imprisoned for debt, and to free himself from his liabilities filed his petition. At present he was acting as assistant to a chemist, and getting 1*l.* a week and living rent free. He was a young married man, and he asked that his Honour would not tie him for ever from earning an honest living.

His Honour said when a man came empty-handed, without assets or any provision for his creditors, it would be a perversion of the Act of Parliament to grant him a discharge without a very satisfactory explanation.

Re SAMUEL BALME, Ravensthorpe, Medical Botanist.

THIS debtor came up for his public examination at the last sitting of the Dewsbury Bankruptcy Court. In reply to questions put by the Official Receiver, the debtor said that although he described himself as a medical botanist he in 1880 commenced a career as mesmerist and traveller about the country. He had been put to considerable expense by contracting smallpox during the epidemic at Sheffield. He had also had to pay heavy law costs, owing to a person named Duffield going to the Public Hall at Workington after debtor had been lecturing and calling him a fraud and a swindler, and asserting that he (Duffield) would end debtor's public career on that platform. He brought an action against Duffield at the Assizes, but a biased jury threw him out of court. He was unable to lay down enough money for a new trial, so agreed to a verdict for defendant, he paying his own costs. He had been in a state of insolvency since 1885. The furniture at his house did not belong to him, as it had been purchased by his wife with money borrowed from her brother. The examination was finally ordered to be closed.

Business Changes.

MR. E. E. COMER, of 37 Hare Street, Woolwich, has disposed of his business to Messrs. Cook & Goldthorpe, of Doncaster. The transfer was negotiated by Messrs. Berdoo & Co.

MR. WILLIAM WILSON (from J. Bell & Co., Oxford Street) has purchased the business of Mr. A. G. Green, 281 Brixton Road, S.W. The transfer was conducted by Messrs. Berdoo & Co.

MR. JOHN ETTLES has purchased the business of Mr. Frederick Barry, at 11 Green's End, Woolwich. Messrs. Berdoo & Co. conducted the transfer, and valued for both vendor and purchaser.

MR. NATHANIEL CHARLESLEY has disposed of the business which he has conducted for the past forty years at 418 Brixton Road, S.W., to Mr. Arthur Bush. The negotiations were conducted by Messrs. Berdoo & Co.

MR. J. S. SIMCOCK, of Goswell Road, E.C., has recently opened a branch of "The Ladye Owen" Drug Stores at 58 Penton Street, Pentonville Road, N., formerly occupied by Mr. J. Bland, who has retired from business.

MR. WM. ALLAN, of Messrs. Carruthers & Allan, has taken the shop presently occupied by Mr. Young, umbrella-maker, in High Street, Dumfries, and intends opening therein in the spring. Owing to a dissolution of partnership this will change one of the oldest and most respected Scotch firms, and increase the number of chemists' shops in Dumfries to twelve.

Personalities.

MR. RICHARD SWINGBURN, chemist, has been appointed J.P. for the borough of South Molton.

ALDERMAN WILLIAM PARKINSON, Mayor of Burnley, has been placed on the Commission of the Peace for the borough.

MR. R. HARDING BREMRIDGE, son of the Secretary and Registrar of the Pharmaceutical Society, has just taken the B.Sc. degree of the London University.

ACCORDING to *Pearson's Weekly*, Mr. Cockle, the well-known pill-maker, composes operas. Perhaps his is the music of the spheres which we have heard about.

MR. WILLIAM GEORGE SHARPE MOCKFORD, the financial agent whose name has been associated recently with Potsdam Reef and other mining companies, was originally a wholesale druggist.

MR. E. B. SHERLOCK, Redwood Scholar in the Pharmaceutical Society's School of Pharmacy in 1889, and Pereira Medallist in 1890, has passed the B.Sc. examination of the University of London.

MR. ROBERT GIBSON, pharmaceutical chemist, and head of the firm of Robert Gibson & Sons, medicated-lozenge manufacturer, Manchester, has just been made a magistrate of the city of Manchester.

MESSRS. PARKINSON, WELLS, PARTRIDGE, and LANDOR, all chemists' assistants, afforded considerable pleasure and amusement to their hearers, in their mandoline and guitar combination, at the Bournemouth Bicycle Club Supper last week.

THE Davy Medal goes this year to Professor François Marie Raoult, for his researches on the freezing-points of solutions, and on the vapour-pressures of solutions; while Sir Joseph Dalton Hooker, F.R.S., is to receive the Darwin Medal.

THE Kent County Council have reappointed Mr. M. A. Adams county analyst. The Chairman remarked that Mr. Adams had performed the duties remarkably well, and he thought he should be appointed for a longer period than one year.

A CIVIL-LIST pension of 75*l.* per annum has been granted to Mrs. Dittmar, widow of the late Mr. William Dittmar, LL.D., F.R.S., Professor of Chemistry in Anderson's College, Glasgow, in consideration of the distinguished services of her husband.

MR. DENNIS GREENWOOD, JUN., chemist, of Petty-cury, Cambridge, has been nominated a candidate for the vacancy on the Town Council, caused by the elevation of Mr. Cunningham to the aldermanic bench. Mr. Greenwood is the candidate of the Conservative party.

MR. W. J. BARNES, chemist, of Dover, has been presented by the members of the Dover Habitation of the Primrose League, of which he is the Ruling Councillor, with an illuminated address embodying their congratulations upon his elevation to the local bench of magistrates. The presentation was made by Mr. G. Wyndham, M.P., at the annual dinner of the Habitation.

THE late Mr. J. C. Turner, who for fifty years was dispenser at Barnstaple Dispensary, has bequeathed 750*l.* each to the London Missionary Society, the British and Foreign Bible Society, and the Irish Evangelical Society, and 720*l.* to the Religious Tract Society. An old servant receives 500*l.* and a house, and the residue goes to relatives. The value of the estate is said to be 20,000*l.*

HOW TO BECOME WEALTHY.—"A curious case occurred recently in the out-patient department of one of the metropolitan hospitals," says the *Lancet*. "A woman attending for fibrous stricture of the rectum said she had swallowed a *sovereign* and a *half* about a fortnight before, 'when larking.' The surgeon in attendance examined the rectum, and removed three *sovereigns* from the stricture with a pair of forceps at one grip."

New Companies.

CLARKE & CO. (LIMITED).—Capital 500*l.* in 1*l.* shares. Objects: To acquire the business of drug stores now carried on at 3 Market Place, Harrow Green, Leytonstone, and to carry on business as wholesale and retail chemists, vendors of proprietary medicines, druggists' sundriesmen, &c. The first subscribers (who take one share each) are: E. J. Allen, 3 Chapel Place, Pere Street, W., warehouseman; T. Jarrett, 41 Albert Road, Dalston, N.E., warehouseman; T. Barry, 23 Fordham Street, E., warehouseman; W. E. W. Rumsey, 11 Lupton Street, Kentish Town, chemists' assistant; G. Marchison, 91 Albany Street, N.W., accountant; H. W. Kirby, 3 Market Place, Leytonstone, clerk, and Annie Kirby, 3 Market Place, aforesaid. Registered without articles of association.

THE SCOTTISH DRUG DEPOT (LIMITED), 16 Nicolson Street, Edinburgh. Registered in Scotland to carry out the transference of the business, property, and assets of the old company registered under that name, and to carry on at any place or places within Scotland the business of wholesale, retail, and manufacturing chemists and druggists, as well as that of dealing in tea, spices, perfumery and general articles for public or domestic use. Capital 10,000*l.*, divided into 10,000 shares of 1*l.* each, with power to increase. Original subscribers, John Corstorphine, Junction Street, Leith, baker, 125 shares; R. Kerr, Bread Street, Edinburgh, grocer, 50 shares; W. G. Miller, Edinburgh, advocate, 50 shares; R. B. Wallace, Leith timber merchant, 10 shares; R. Grieve, 25 Leith Walk, Leith, bank agent, 12 shares; Rev. James Park, St. John's Parish, Leith, minister, 50 shares; G. S. Aitkin, Edinburgh, architect, 12 shares.

WORLD'S DISPENSARY MEDICAL ASSOCIATION (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Object: To provide and supply medical and surgical advice, and assistance and medicines of all kinds; to manufacture, compound, prepare, buy, sell, and deal in all kinds of medicines, drugs, and preparations, whether patented or not, and to carry on business as chemists and druggists, &c. The first subscribers (who take one share each) are:—R. V. Pierce, Bay Side, New York; L. H. Smith, M.D., 224 Elmwood Avenue, Buffalo, U.S.A.; V. M. Pierce, M.D., 65 Ashland Avenue, Buffalo, U.S.A.; B. T. Bedortha, M.D., 3 New Oxford Street, London; T. H. Callahan, M.D., 38 Orton Place, Buffalo; O. M. Shreve, M.D., 486 Pearl Street, Buffalo; and P. W. Dorris, 259 Hudson Street, Buffalo, superintendent. There shall not be more than five nor less than two directors, and the first are:—R. V. Pierce, V. M. Pierce, L. H. Smith, T. H. Callahan, B. T. Bedortha. Remuneration to be determined in general meeting. Registered office: 3 New Oxford Street, London, W.C.

MAGNETIC AND BOTANIC SCHOOL OF SAFE MEDICINE (LIMITED).—Capital, 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of school or college proprietors in all its branches, and any other business that the directors may calculate to be advantageous to the company, either directly or indirectly. The first subscribers (who take one share each) are: D. Younger, 20 New Oxford Street, W.C., medical herbalist; A. Bedells, 78 Chatsworth Road, N.E., medical herbalist; R. Hoare, 92 Bartholomew Close, E.C., merchant; A. W. Maguire, 39 Devons Road, Bow, E., medical herbalist; C. Gapp, 104 Green Street, Victoria Park, E., medical herbalist; C. Norfolk, 19 Ball's Pond Road, London, medical herbalist; and V. Trimming, 96 St. Ann's Road, S. Tottenham, journalist. The first directors are D. Younger, C. Gapp, A. Bedells, R. Hoare, C. Norfolk, and A. W. Maguire. Qualification and remuneration not stated. Secretary, Rev. V. Trimming; registered office, 21 Stepney Green, London.

DEATHS.

BELLAMY.—On November 6, Robert Bellamy, chemist and druggist, Bedale. Aged 54.

BOUTTELLE.—On November 3, Harold Boutelle, pharmaceutical chemist, Kennington. Aged 40.

GREEN.—On November 3, John G. Green, chemist and druggist, Brackley. Aged 65.

HOPPS.—On October 26, John G. Hopps, chemist and druggist, York. Aged 59.

LUCKMAN.—On October 23, William Luckman, chemist and druggist, late Manchester. Aged 66.

MURCHIE.—At Victoria Square, Lockerbie, N.B., on November 17, Mr. William Gardiner Murchie, chemist and druggist. Aged 34. Mr. Murchie as recently as October 22 took part in *THE CHEMIST AND DRUGGIST* correspondence on a homeopathic prescription. He was quite well until a week before his death, when he caught a chill, to the immediate effects of which he succumbed. He was a sergeant in the Lockerbie Company of the King's Own Scottish Borderers, and was buried with military honours on Monday.

RAMSDEN.—The death is announced, at the age of 65, of Mr. Alderman Alfred Ramsden, J.P., of Kingston, editor of the *Halifax Courier*. Mr. Ramsden was bred to the drug trade, having been apprenticed to Mr. Lofthouse, druggist, Corn-market, Halifax—the same shop that was afterwards occupied by Mr. William Dyer. Mr. Lofthouse removing, Mr. Ramsden did not finish his apprenticeship with him, but entered the service of Mr. Jabez Waterhouse, druggist, who had a shop in Northgate. When Mr. Ramsden had completed his apprenticeship, Mr. Waterhouse wished to remove to Ashton-under-Lyne, the place he came from, and Mr. Ramsden acquired the business from him. He conducted it for nine years, but not liking it, and having an inclination for newspaper work, he left it in 1856, and in the following year joined the staff of the *Halifax Courier*. "A man of refined nature, of large sympathies, genial, kindly disposed, generous, whose character was marked by an entire absence of meanness and self-seeking; a man of integrity, doing right from the very love of it, and hating all unrighteousness"; so writes a colleague of his who laments his loss.

SHARPE.—On November 4, John Sharpe, chemist and druggist, Crowle. Aged 75.

SHELEY.—Mr. Alanson Sheley, one of the oldest wholesale druggists of Detroit, died on November 9, aged 83 years. In 1859 he entered the wholesale drug-business in partnership with the late Jacob S. Farrand, and from that time until his death he was the head of the firm now known as Williams, Davis, Brooks & Co. Mr. Sheley was one of the millionaires of Detroit.

WARD.—At Liverpool, on November 24, Mr. John S. Ward, F.C.S., pharmaceutical chemist, the principal of the Liverpool School of Pharmacy, and president of the local Chemists' Association. The deceased gentleman was on the bright side of 40, and in his too short career as a teacher he had given evidence of high capabilities. Mr. Ward studied in the School of Pharmacy, Bloomsbury Square, and was a prizeman of the Pharmaceutical Society. After passing the Major he set up in business in Liverpool as a chemist, and undertook to "coach" pharmaceutical students privately. He was so successful in the latter capacity that he gave up the retail business a few years ago, and devoted his whole time to teaching. From his school several Bell scholars have been elected, and a few have taken the Pereira or other pharmaceutical medals. Mr. Ward was a competent pharmacist, and we have in recent years published several papers from his pen. His death is a loss to pharmacy, and especially to that of Liverpool.

Gazette.

PARTNERSHIPS DISSOLVED.

Crossley, J. H., and Synnot, M., under the style of Hamer, Synnot & Co., Walton, near Liverpool, soap manufacturers.

Holtom, C. J., and Woodroffe, R. P., under the style of Holtom & Woodroffe, Ecclehill, Greengates, and Idle, Yorkshire, surgeons and apothecaries.

Johnson, W., and Robinson, J., under the style of Johnson & Robinson, Derby, mineral-water manufacturers.

Mann, T. E., and Benford, J., under the style of the East London Emery and Glass Mills, Plaistow, glass and emery powder grinder and manufacturers.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Mackenzie, William James, Holloway Road, N., doctor of medicine.

Whitworth, Alfred Ernest, trading as the Manchester and Liverpool Soap Company, Manchester, soap manufacturer.

HOW TO BECOME AN L.P.S.I.

BY A SUCCESSFUL CANDIDATE.

"WEDNESDAY, Thursday, and Friday, 5th, 6th, and 7th inst., having been appointed for your examination, you are requested to attend on the dates mentioned, at half-past 10 A.M., at 67 Lower Mount Street." So read the formal notice informing the candidates that their certificates, &c., had been accepted by the committee appointed to look into such matters, and that they might then sustain their claims to be admitted members of the Irish Pharmaceutical Society.

Precisely at the specified hour a dozen men met at the august entrance, and were promptly shown into the Registrar's office, where a dozen autographs were added to the archives of the Society.

Immediately afterwards, in the examination-room, twelve small tables were placed with chairs before them, and we sat down and waited the advent of the most important personage of the three days—namely, Dr. Ninian Falkiner, examiner in chemistry. Dr. Falkiner is a perfect gentleman in all senses of the term. After telling the men to put their names on the top of their answer-books, he distributed the questions, which have already been published in THE CHEMIST AND DRUGGIST. Immediately the sound of pens racing across papers showed work had commenced. This was broken presently by the doctor calling up a candidate from his paper for *vivâ voce*. We were taken up alphabetically. I came near the middle. The first question I got was, "What is the formula for butyl chloral hydrate? What is hutyry of antimony? How would you prepare it? What are tests for antimony in solution? What is antimony glance? What is the formula of tartar emetic? What is the reaction which takes place when calomel is shaken up with lime-water? What with corrosive sublimate? Write them out in full. Did you ever hear of Boyle's Law, and what is it?" There were, besides, some questions on percentage composition, graphic formulae, and molecular weights. This was the bulk of the *vivâ voce* part, then I was allowed to go back to my paper and the next man was called.

The afternoon was devoted to practical chemistry—the analysis of three salts, and volumetric analysis. The salts I made out to be Rochelle salts, starch, and fine iron filings respectively; the solution H_2SO_4 with 21 grains acid in a fluid ounce. As soon as I had given in my answer-book I was allowed to leave.

Thursday morning was for written papers in materia medica and botany, with Dr. Montgomery, from 11 till 1. The afternoon, from 3, was *vivâ voce*—recognising specimens, plants, descriptions, &c. I was shown chrysarohin, iodide of potash (an extremely large crystal), gum elemi, cantharides, gamhoge, ammoniacum, and several much commoner drugs; also I had to tell all I knew about them, from active principles to B.P. preparations. The plants were poppies, wild strawberry, *Colchicum autumnale*, saffron, and several others, of which I knew the characteristics, but not the common names.

Having done fairly in this department, I was told I need not wait, so went away home to look over the last day's work.

Friday had a particular interest, inasmuch as Mr. T. W. Robinson, the new pharmacy examiner, was to make his *début* at 11 A.M. He made his appearance armed with a handbag and a paper parcel. The handbag contained his specimens, and the parcel his printed questions. Following the custom of the other examiners, Mr. Robinson worked in the *vivâ voce* with the written examinations. First he handed out a number of compound powders, then some fluid preparations, then pieces of wax, camphor, and hard paraffin, asking closely about the B.P. preparations and doses of what he exhibited. Then he took a run through dangerous doses and prescription-reading, and wound up a period of about twenty minutes by asking about the Poisons Act.

The afternoon was for practical pharmacy, and the examiner had a busy time with the "Twelve"; almost everybody had something to look for or a question to ask. But Mr. Robinson was equal to the task, and in a very few minutes every man was working as if his life depended on his success. Ointments, mixtures, blisters, suppositories, plasters, emul-

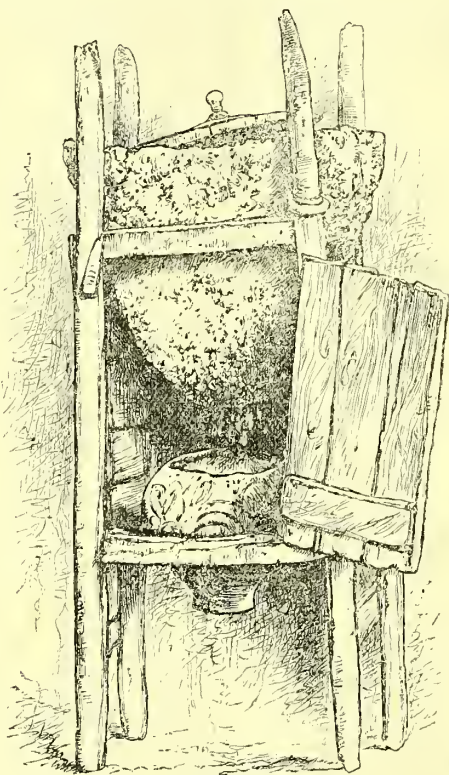
sions, pills, &c., were all in course of production. By 7 o'clock all had finished, and even the "slow man," who is sure to be found in any examination, had a fair chance. Everybody was glad when it was over, and then patience had to be exercised till 6 o'clock on Saturday evening, when the results were published at the office.

Bored and annoyed the examiners must have been very frequently, but they never lost their tempers, and preserved their gentlemanly demeanour from beginning to end of a tiring duty. During the three days several members of the Council came to see how things were going on. Dr. Duffy also called. It is a very fair examination for a man who knows his work: but if he is shaky the examiners are pretty sure to find out the weak point, and they may probe it till he winces.

[The papers set at the examination referred to above were printed in THE CHEMIST AND DRUGGIST, October 29, 1892, page 642.]

A PUMICE FILTER.

THE accompanying illustration represents a filter made from a large block of pumice. Blocks of this size, says Mr. Edward Whymper, in his recent book of travels among the Ecuadorian Andes, are plentiful in certain parts of Ecuador. The material is mainly a colourless, vesicular pumice. Much of it is quite clear, but many of the fragments have entangled within them some small microliths, and also plates of a pale greenish mica, which occurs occasionally in small, clearly-



A PUMICE FILTER AT AMBATO.

defined, pseudo-hexagonal crystals. Some of the mica has a yellowish or brownish colour.

The filter here depicted is one in daily use in the family of Señor Juan Guerrero Duprat, Minister for Foreign Affairs of the Republic of Ecuador, who let a suite of his principal apartments in his house at Ambato to the traveller at 4s. a day.

EDINBURGH INFIRMARY PREPARATIONS.

A FEW weeks ago we mentioned that Mr. Charles Arthur Chemist to the Royal Infirmary, Edinburgh, had compiled a "Pharmacopœia" of the preparations most in use in that institution. The book is an exceedingly useful one, and has evidently been prepared with great care. We cannot better show its nature than by quoting a few of the formulae. The "Pharmacopœia" is published by Mr. James Thin, South Bridge, Edinburgh, at 3s. 6d. (2s. 8d. net); or in Persian green leather, 4s. 6d. (3s. 6d. net).

Gargaris. Potass. Chlorat. Co.

Take of—

Chlorate of potassium	1½ drachm
Sulphate of aluminium	1½ "
Glycerine	1 oz.
Dilute hydrochloric acid	2 drachms
Solution of hydrochlorate of morphine ..	1 "
Distilled water up to	8 oz.

Dissolve the chlorate of potass. and alum in 4 oz. of the water, add the other ingredients, and make up to 8 oz. with water.

Use frequently. Astringent, antiseptic, and sedative.

Lotio Staphisagrie.

Take of—

Stavesacre seeds (in rough powder) ..	2 oz.
Acetic acid	1 "
Water	a sufficiency
Spirit of wine	2 oz.
Glycerine	1 "

Mix the acetic acid with 10 oz. of water, add the stavesacre, boil for ten minutes in a covered vessel, add the spirit of wine, stand till cold, strain or filter, add the glycerine, and make finished product 1 pint.

For destruction of pediculi.

Mist. Codeinæ Co.

Take of—

Sulphate of codeine	3 grs.
Solution of sulphate of atropine ..	12 minims
" " hydrochlorate of strychnine	1 drachm
Syrup of tolu	1½ oz.
Acid infusion of roses up to	6 "

Dissolve and mix.

A tablespoonful in a wineglassful of water every four or six hours. Sedative cough-mixture in phthisis.

Mist. Lobeliæ Co.

Take of—

Iodide of potassium	2 drachms
Carbonate of ammonium	1 "
Ethereal tincture of lobelia	4 "
Spirit of chloroform	4 "
Ipecacuanha-wine	1 "
Infusion of senega up to	6 oz.

Dissolve and mix.

A tablespoonful in a wineglassful of water every four hours. Useful in bronchitic asthma.

Ol. Fumigans.

Take of—

Sanitas oil	3 oz.
Carbolic acid	3 "
Eucalyptus oil	3 "
Oil of Scotch pine	1 "
" lavender	2 drachms
" lemon	2 "

Dissolve and mix.

For disinfecting and deodorising sick-rooms.

To be used by means of a fumigating-basin and spirit-lamp.

Pasta Gelatini pro Pastillos.

Take of—

Refined gelatine	1 oz.
Glycerine	2½ "
Gum acacia	2 drachms
Orange-flower water	2 oz.

Add 1 oz. of the orange-flower water to the gelatine, allow to stand till a soft mass is formed, add the gum previously dissolved in the remaining oz. of orange-flower water, dissolve by the aid of a gentle heat, then add the glycerine.

This combination forms a good basis for pastils, being easily but slowly soluble, thereby allowing any medicaments to come gradually in contact with the affected parts of the throat.

The medicines employed in the ear and throat, eye, venereal and skin, as well as the general medical and surgical departments of the infirmary are incorporated.

PILLS.

HOW THEY ARE CHANGED BY LIGHT, AND HOW TO KEEP THEM.

MR. A. C. ZEIG has some ideas on the storing of pills, and recently he gave the *Pacific Druggist* the benefit of them. Mr. Zeig, quite properly, points to the fact that pills are often kept for a considerable time, and that the druggist is apt to forget that meanwhile the ingredients of the pills may be changing and their therapeutic properties deteriorating. "A perfect coating," he says, "materially assists in keeping the mass in its proper state of preservation. The use of amber, instead of flint-glass bottles, for storing pills, is to be preferred should they be exposed to light; a wrapper or carton accomplishes the same object."

Among gelatine-coated pills most sensitive to light the following may be enumerated:—

Mercury protoiodide pills, changing from a yellow or light green to a greyish, and sometimes to a dark, colour, due to a partial decomposition of the protoiodide with separation of metallic mercury in a finely-divided condition, this change being accelerated in presence of moisture.

Phosphorus pills assume a reddish-brown colour, due to transformation of the phosphorus into the inactive amorphous variety.

Pills containing ferrous iron undergo oxidation with a noticeable change in colour, indicating an approach to the ferric condition.

Quinine pills and white pills generally, on long exposure to light, in the course of time assume a light-brown colour, due to oxidation of traces of iron naturally present in the gelatine employed for coating.

Santonin pills change in colour from white to a dull yellow, resembling picric acid.

Pills containing silver salts are naturally very sensitive to light, making the best possible protection necessary.

Calomel pills of a greyish or dark colour are sometimes met with in the market. While this change from a natural white to a dark appearance may frequently be attributed to the effect of bright light, causing partial decomposition and separation of finely-divided metallic mercury, it is more frequently due to the presence of sulphites in the gelatine used for coating, being employed by manufacturers of gelatine for the purpose of bleaching it. A careful selection of the gelatine employed for coating is therefore necessary.

The pills generally affected by an abnormally high temperature and atmospheric changes are such as embody either hygroscopic or resinous ingredients, or which, from the nature of the constituents, are quite soft, as is often the case with pills containing soap. Especially when moist air has access to them, the influence of heat from various sources, whether produced by radiation from a stove or by being in too close proximity to a lamp or gas flame, often facilitates undesirable changes in the ingredients of the mass and coating, thus causing the mass to stain through the sugar coating, or causing it to sprout, as is sometimes the case with gelatine-coated pills, rendering the coating itself more or less adhesive.

Pills containing hygroscopic ingredients—such as potassium iodide, potassium carbonate, &c.—require the closest attention in order to insure their proper preservation. By storage in bottles tightly corked, remote from any source of heat, preferably in a place where the variations in temperature are not too pronounced, any difficulties of this nature may be avoided.

ENO'S FRUIT SALT.—*New Idea* has analysed this, and reports that it contains sodium bicarbonate, 168 parts; tartaric acid, 150 parts, and Rochelle salt, 110 parts.

Scientific Notes:

On Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected and Translated.

PURE ACETANILIDE.

TROMMSDORFF has succeeded in producing an acetanilide which forms a colourless solution with sulphuric acid, and which is not altered by such contact at the end of ten hours. The acetanilide melts at 114°C.

ALKALOIDS OF "DATURA ALBA," NEES.

SHIMOYAMA and Koshima have examined the seeds of *Datura alba*, which are used in Japan as an anæsthetic, and have found that their properties are due to hyoscyamine, besides which alkaloid the seeds also contain a small percentage of atropine. Full details are published in *Apotheker Zeitung*.

CONDURANGIN.

CONDURANGIN is a glucoside, first obtained by Vulpinus, from the bark of *Gonolobus condurango*, and considered by some writers as identical with vincetoxin from *Aselepias vincetoxicum*. It consists, according to Carrara (*J. C. S.*, 1,352), of insoluble condurangin, a light, almost white powder which melts at 60° to 61°, and has the percentage composition $C_{20}H_{30}O_6$, and soluble condurangin, a yellowish substance melting at 134°, and having the composition $C_{15}H_{25}O_7$, but its molecular weight could not be determined.

CHRY SOPHANIC ACID.

V. GRANDIS has prepared chrysophanic acid from chrysarbin according to Liebermann's method, and finds the melting-point to lie between 162° and 187°, although the product was repeatedly crystallised from benzene. The sublimed substance melted at 185 to 187°, and this melting-point was further raised to 190 to 191° by recrystallisation. In all other respects the specimen appeared to be identical with that described by Liebermann. The results of the elementary analysis agreed with the formula $C_{15}H_{10}O_4$.—*Journ. Chem. Soc.*

SULPHURETTED-HYDROGEN SOLUTION.

THERE is nothing so troublesome in laboratories as sulphuretted hydrogen, whether the demand for it be intermittent or constant. And how many are the forms of apparatus which have been devised to meet all requirements! There is a very simple way of getting over the trouble. Sodium sulphide is obtainable tolerably pure, it dissolves readily in water, and a solution may be made when wanted in any quantity desired. This is a perfect "sulphuretted-hydrogen solution," and as sodium is always sought for in the original solution or solid the presence of the base is no detriment in analysis.

FORMATION OF GLAUBER'S SALT.

AN interesting reaction is supposed to be at work at the kainite-mines of Kalucz, Galicia (*Journ. Chem. Soc.*, page 1,286). Glauber's salt has been found there, but as none of the superincumbent strata contain that salt, but only sodium chloride, it was supposed that the Glauber's salt had been formed by the action of rain-water percolating through the upper strata, where it dissolved sodium chloride, and then penetrating to the kainite layer, where the sodium sulphate is formed by the reaction between sodium chloride and the potassium sulphate of the kainite. This view was confirmed by a laboratory experiment.

CHALYBEATE MINERAL WATERS.

FROM observations made by J. Riban it appears that but a small fraction of the iron originally in solution in the waters of chalybeate springs so remains when bottled for sale by pharmacists. For example, Autuill water originally contains 0.0809 gramme of iron per litre, but in the bottles as sold there is only 0.0022. In Vichy (Lardy) there is originally 0.0073, but in the bottle only 0.0011. F. Parmentier differs from Riban, it being his opinion that chalybeate

waters retain a considerable quantity of iron in solution, if bottled whilst they contain carbonic anhydride.

SUN AND SHADE.

M. L. GÉNEAU DE LAMARLIÈRE, in a communication to the Academy of Sciences on the comparative assimilation of plants of the same species, developed in the sun and in the shade respectively, has reported that a series of quantitative results showed that under similar external conditions the decomposition of carbonic acid varies in intensity, for leaves of the same species, according to the conditions of development of these leaves; and that the leaves of a species developed in the sun, all other conditions being equal, decompose the carbonic acid of the air more energetically than those developed in the shade.

A NEW "BLEACH."

A NEW bleaching-medium for silk, wool, and similar fibres has recently been introduced. This is sodium superoxide, Na_2O_2 , which is analogous to hydrogen peroxide in its properties. It is sent out in the form of a white powder readily soluble in water, and on adding acids it forms a clear neutral liquid containing peroxide of hydrogen. This can be used for bleaching by the ordinary well-known bleaching-processes. A method of working consists in taking from 10 to 30 per cent. of the sodium superoxide and adding 30 per cent. of Epsom salts, the percentages being of the weight of the fibre which is being bleached. The bleaching-process takes from two to three hours. Sodium peroxide is hygroscopic, but it is very stable. It is made in this country, we believe, by the Aluminium Company.

ANALYSIS OF LINOLEUM.

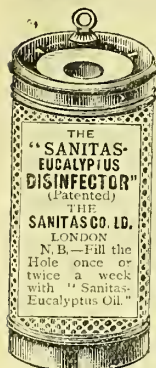
THE value of linoleum depends largely upon the amount and quality of the linseed oil which it contains, and as this oil is frequently adulterated, and the linseed oil artificially thickened by saponification with manganese oxide instead of simple oxidation, it becomes a matter of importance to determine the quality of the material by chemical analysis. In doing this it is desirable (says J. Pinette) to separate the upper layer from the painted cloth on the lower surface of the linoleum; then treat the upper part in a Soxhlet apparatus with ether to free it from oil, and examine the residue by proper methods for the other ingredients, which are substantially as given in the following results:—

—	1	2	3
Moisture	3.39	3.01	3.41
Linseed oil	11.43	10.60	19.58
Cork	77.24	73.63	54.16
Silica	2.94	3.99	4.31
Alumina	1.91	4.94	0.61
Ferric oxide	1.78	1.79	8.86
Other bases	1.31	2.04	9.07
Total	100.00	100.00	100.00

QUANTITATIVE DETERMINATION OF PEPTONE.

M. L. A. HALLOPEAU, in a recent communication to the Academy of Sciences, states that the following method is superior to the polarimetric, the calorimetric, and the absolute alcohol methods. A solution of peptone, which must be neutral or very slightly acid, is precipitated by a large excess of mercuric nitrate. The white, flocculent, and bulky precipitate of mercuric peptonate is allowed to settle, and then poured on to a filter of known weight, washing with cold water until free from mercury. The increase in the weight of the filter, dried at 108°–108°, represents the weight of the peptonate of mercury; multiplying this by 0.666 gives the amount of peptone present.

The mercuric nitrate is readily obtained from the "pure" commercial nitrate. Since this contains an excess of free nitric acid, which partially redissolves the peptonate of mercury, the acid must be removed by heating the nitrate with ten times its weight of water for fifteen or twenty minutes, filtering, and heating to near boiling in a porcelain capsule. Then stir, and add a few drops of carbonate of soda until the precipitate of oxide of mercury is no longer redissolved.



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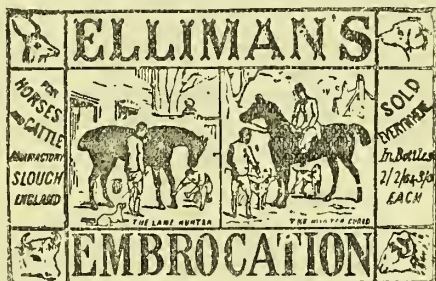
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Sent to any address in the United Kingdom.



See first page, facing inside of front of cover, of first issue of this month, for latest particulars.

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BODILY PAIN?
DAY'S OIL OF THE NIGHT

*In Strength + Ingredients
Identical with B.P.
Miscible
Fluid
Extract of Alkalies
not used
in production
Wright, Payne & Umney, Southwark, London*

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PURE STARCH POWDER	{ 26/ }	1 cwt. carriage paid; or ✕ 7, 14 & 28 lbs. free on rail Lond.
PURE FULLER'S EARTH (Light Colour)	{ 16/ }	1 cwt. carriage paid; or ✕ 7, 14 & 28 lbs. free on rail Lond.
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✕ CARRIAGE PAID ✕		
To Railway Stations within the radius of 200 miles from London, and up to 2s. to Stations beyond, on 112 lbs. and upwards of above articles.		

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In Bottles and Patent Syphons.

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Fletcher's
Concentrated Liquors
ARE THE CHEAPEST BECAUSE THEY ARE THE BEST.

Editorial Comments.

THE CITY COURT OF ARBITRATION.

A CHAMBER OF ARBITRATION, brought into existence this week by the joint efforts of the City Corporation and the London Chamber of Commerce, aims to establish a cheap and quick

mode of settling commercial disputes. This court is governed by a committee of twelve members—one-half of them nominated by each of its parents. The chairman of the committee is Mr. Henry Clarke, L.C.C., one of the Corporation members, and among the representatives of the Chamber of Commerce we observe the name of Mr. David Howard. Sir Albert Rollitt, LL.D., M.P., &c., who is concerned in so many pies that he has good cause to quarrel with Nature for only having bestowed upon him the regulation number of fingers, is also there. The London Chamber of Commerce appears to have the sole right of nominating arbitrators, but the appointment of these gentlemen rests with the Corporation. The Arbitration Court (which sits at the Guildhall every working day when cases are down for hearing) will be open to voluntary applicants as well as for the arbitration of cases referred to it by courts of law, and its decisions, we are informed, will have the force and effect of a verdict in the High Court. When once the parties to a dispute have signed the form of submission neither can retract without the sanction of the other. Its proceedings are to be private, and no persons besides the officials and witnesses are to be allowed to be present at the hearing of disputes except such as the disputants may mutually request to be present. The parties may be represented at the hearing by a solicitor or counsel, but in this event they must give notice to the other side; or they may be represented by a clerk or other person in their actual or permanent employment, or, in the case of persons carrying on business more than fifty miles from the Guildhall, by their London agents.

The special features of the new court are to be economy and despatch. The only necessary fees, we gather, are a court fee of one guinea and an arbitrator's fee of two guineas for every case heard. This tariff only applies to cases that can be disposed of within an hour. For longer cases the arbitrator is to be paid one guinea per subsequent hour, while witnesses, lawyers, and the Court Assessor are all to be paid if they are used. The parties may select their own arbitrators from the list approved by the Corporation, or the registrar will make the selection for them. This post of registrar has been conferred, *ad interim*, upon Mr. Thomas Roderick, the Secondary of the City of London, and that gentleman will, if required, act as legal assessor, unless the disputants prefer to call in the official legal assessor of the Chamber, Mr. Philbrick, Q.C., who has "undertaken that office," and whose fee will be from 5*l.* 5*s.* to 10*l.* 10*s.* a day, according to the case. It is hoped that the bulk of the cases will be disposed of in a couple of hours each. No time is to be lost in hanging about the courts, the hour of hearing being fixed beforehand and punctually adhered to. Accommodation for the concurrent hearing of several cases will be provided, and it is officially announced that "forensic displays will not be encouraged," and also that "the arbitrators will not be fettered by the rigid rules of evidence in force in the courts of law."

These, in outline, are the rules upon which the business of the Arbitration Court will be conducted. There is pressing need for some court of the kind now created. Business men are sick of the Law Courts and the ridiculously protracted proceedings which lawyers have devised for their own benefit before a case can be brought to an issue. The forensic displays may suit very well for women squabbling about their brooches, but they are not worth the money they cost when the object is to settle one of the many disputes which must necessarily arise in the course of commercial transactions. The law societies, it is said, are bewailing the loss of commercial business. The goose which they have treated in the past so unceremoniously no longer lays the golden eggs,

and they want to win it back to its former profitability. The schemes they are devising are absolutely valueless. The reform must be a great deal more radical than anything they are likely to propose. What is wanted is the almost total suppression of counsel, and an apprehension of the fact that it is the business of the judges themselves to unravel points in dispute.

The success of the City Court of Arbitration will depend mainly on the character of the arbitrators appointed on the panel. There are good men in all branches of business, but those who will push themselves forward are not necessarily the most capable.

The statement made, with all the appearance of a boast, that the arbitrators will not be "fettered by the rigid rules of evidence in the courts of law" is not one likely to encourage careful business people to invoke the assistance of the new court, and it will be interesting to hear what authority there is for asserting that the "decisions and awards (of the Arbitration Court) will have the force and effect of a verdict in the High Court." Of course, the two parties themselves can make a binding contract to accept anybody's decision; but the verdict can have no effect beyond that particular case, and, as we have said, it will not be largely appealed to unless confidence is established in the ability of the arbitrators. Another cause that will militate against the success of this experiment is that a large number of business people in the City, connected neither with the Corporation nor with the Chamber of Commerce, are, nevertheless, more or less actively interested in some association consisting exclusively of members of their own trades. If two Mincing Lane firms have a business dispute they either take it into court in the regular way or settle it by the forms of arbitration known to them all, and with which, so far as we are aware, no serious dissatisfaction has been expressed. Each of the large Exchanges also has its own process of arbitration, and the new court at Guildhall appears to be a not very happy compound of these unofficial tribunals and some of the forms of the statutory law.

The rule to admit counsels, solicitors, and agents instead of the actual litigants is a feature which the managers of the Court should very carefully guard if they want to maintain their institution. The lawyers will soon ruin it if they can once get possession. The promised privacy of the proceedings will be a temptation to many disputants who do not care to take all the world into their confidence about their private affairs, but it will seriously handicap the Chamber in its competition with the regular courts. Unless it advertises itself in some way or other it will soon be forgotten.

CUMULATIVE PENALTIES.

THE very confident judgment which we reported last week by Mr. Baron Pollock and Mr. Justice Hawkins in regard to penalties imposed under the Apothecaries Act, is probably more important as an indication of the tendency of the judicial mind than as a contribution to the construction of the Act. Under the statute the Society of Apothecaries had sued an unqualified dealer at Derby for three penalties of 20*l.* each for infringement of the 20th section. The three charges of acting as an apothecary had all occurred on the same day, and the County-Court Judge held that only one offence of "acting and practising as an apothecary" had been proved. He expressly based his judgment on a ruling of Lord Tenterden in 1824, in the Apothecaries' Society *v.* Bentley—a decision which the *Lancet* of last week seems to think nobody knows of but itself, referring to it as a case which "appears to have escaped the notice of all

parties concerned." The Society of Apothecaries appealed, and the judgment of the Court of appeal which we gave last week confirmed the decision of the High Court.

Obviously it requires more than a single Act to constitute a practice, but it is not quite clear that when the statute prescribes a penalty of 20% for "every such offence" it does not mean every offence of acting as an apothecary as well as every offence of practising as an apothecary. When an analogous case under the Pharmacy Act came under the ruling of the very same two Judges they decided with at least equal confidence that when that Act provides a penalty of 5% against any unqualified person who shall sell or keep an open shop for the retailing, &c., of poisons, two distinct offences were alluded to. They held that a person might be liable for selling a poison though he did not keep an open shop for so doing. It is difficult to say wherein lies the distinction between the two statutes, the expressions used in their penal clauses being curiously similar. It is to be noted, too, that the judgment applies to three acting as an apothecary all on the same day. Whether it would have made any difference if they had occurred on three consecutive days, or during three weeks or three months, we cannot say. What we note, however, particularly, is the apparent disinclination of the Judges to award cumulative penalties if they can find a way out of doing so.

Curiously enough, we published also last week the report of an undefended county-court action, in which the Pharmaceutical Society recovered judgment for six penalties of 5% each against an unqualified person, who was proved to have kept an open shop for retailing poisons on those six occasions. The Pharmaceutical Society has been for some months past making a very good thing out of these cumulative penalties. A revenue at the rate of 1,200% to 1,500% per year has been reported. We think the juxtaposition of the two cases should be evidence of the very precarious nature of that income. We are very glad to see the recently-awakened vigour exhibited by the Council in its efforts to enforce the Pharmacy Act; but we should be not at all sorry if the custom of extracting numerous penalties from a few individuals should have to be abandoned for the much fairer—and, as it appears, more legal—method of suing for single penalties from the widely-spread army of law-breakers.

THE CHEMISTRY OF GOUT AND GRAVEL.

THERE would seem to be no department of pathology in which the application of chemical science to therapeutics was so promising as that which is developed in gout and gravel. To a considerable extent the immediate causes of these most painful diseases have been traced. They may be said to be simply the mechanical results of chemical reactions occurring within the body, and at first glance it would seem to require little beyond a few analyses and test-tube experiments to discover the means of preventing, and perhaps of curing, these maladies. But Nature is not to be trapped in this easy way. So far the chemical treatment of both gout and gravel has accomplished almost nothing, and the remedies which do appear to have any controlling influence on either are entirely empirical—that is to say, they act in some manner quite uncomprehended by all our physiologists.

Discouraging though this result may be, its effect should be, and is, to stimulate and not to paralyse the advanced guard of our pathologists. The victory is so possible, and the spoil so precious, that it will certainly be aimed at by many an investigator yet.

Sir William Roberts, M.D., of Manchester, has been one of the most recent of the contestants in this hopeful field, and his contribution towards a more accurate knowledge of the conditions of the problem is a notable one. The record of his studies was made public in the Croonian lectures delivered before the Royal College of Physicians this year; and these have now been published, with additions, by Messrs. Smith, Elder & Co. It would be difficult to express too high an appreciation of the scientific method and the patient labours which Sir William Roberts has devoted to this subject. He has not hit on some lucky find, such as those which invariably reward the researches of the Kochs and Pasteurs of the day when they set forth on their remedy-seeking expeditions. But he has directed a large number of searching experiments towards the discovery of the "error" in natural processes which occasions gout in some constitutions and gravel or calculus in others; and he has distinctly advanced our knowledge in this inquiry.

Uric acid is the chemical compound which deals out the agony involved in either of the maladies named. In gout it is precipitated in the form of crystals of sodium bi-urate from the blood serum or synovia; in gravel it is deposited as free uric-acid crystals from the urine as it passes from the kidneys. By a long series of experiments and observations Sir William Roberts has apparently established the important fact that in a perfectly healthy condition of the body uric acid is invariably held in solution in combination as a quadri-urate of sodium. Dr. Bence Jones suggested this idea some thirty years ago, but did not follow it up, and, indeed, did not seem to be sure of it. It would occupy too much space to follow the author's proof of this proposition, but it may be said that if he has not developed the theory into a certainty, he has at least demonstrated its extreme probability.

This quadri-urate is the substance which is often deposited from acid urine as a granular, amorphous body, and the chemico-medical object of treatment should be to retain it unaltered throughout its passage and in the kidneys. But the compound is a very unstable one. In the presence of pure water half its uric acid is separated in insoluble and crystalline form. Sir William Roberts sets himself the task of ascertaining what are the conditions which protect this disintegration of the compound. He finds that the precipitation of uric acid from the urine is checked to some extent by the pigments associated with it, more still by the saline constituents, but above all and principally by maintaining the urine in an alkaline condition. The urine tends to an acid condition during the night and in the early morning. The principal practical outcome of these investigations, as far as the treatment of gravel and calculus is concerned, is therefore the recommendation that persons with a tendency to such complaints should so arrange their meals as to ensure as short an interval as convenient—the urine becoming always alkaline after meals—and should take 40 to 60 grains of citrate of potash at bedtime, and in severe cases another dose in the course of the night.

The prevention of the precipitation of the crystalline bi-urate from the blood, to which gouty persons are predisposed, is less definitely dealt with. The difficulty seems to be a deficient uric-acid excretory power on the part of the kidneys. The first step, therefore, should be to restrict the production of uric acid by lessening the intake of nitrogenous food. Chloride of sodium is found to facilitate the precipitation of the bi-urate, and therefore the consumption of salt with food may be restricted, though the blood will not generally take up more of this constituent than is normal to it. The author finds no chemical evidence to support the belief in the controlling influence of alkalies generally, nor in

the solvent powers of carbonate of lithia and piperazine, on the uratic deposits which these remedies have been asserted to possess. His only other practical suggestion is that gouty persons should be more liberal in water-drinking in order to dilute the solution of the urates, and thus aid the action of the kidneys. It is, in his view, the extra supply of water combined with a plainer diet, more open-air exercise, and the freedom from home worries, which renders the continental "cures" of value, rather than any special virtues in the saline constituents of the waters drunk.

COMMENTARY.

THE SUPPRESSION OF CUTTING.—In the last issue of *Time*, the advertisers' journal, Messrs. Blondeau et Cie. record their experience in attempting to check the too reckless cutter. They say they do not object to a retailer selling at a percentage of profit which, if applied to his goods generally, would yield him a living profit on a fair turnover; but they do object to having their preparations singled out and used as a cat's-paw to sell the articles of other manufacturers, to the future detriment and damage of their business. In such a case, although they admit the force of the contention that a man, having bought one or more cakes of their soap, may do what he likes with it, they hold that the manufacturer is equally entitled to protect himself if he can. They believe the labourer is worthy of his hire, and that if a manufacturer would establish his business on a permanent basis, he should make it worth the while of all retailers to handle his goods always, and not for a little time—in other words, he should see that the retailers realise a fair living profit on every sale of his article. After explaining their plans in detail, they discuss its effect. They do not claim to have an unfailing panacea for the "cutting" ill; as long as men make agreements and sometimes break them, so long will absolute certainty be impossible. But they assert that, so far, they have found the trade loyal and considerate. They only know of one extreme cutter who is not working on their lines, and he gets the goods from other dealers at retail prices. When they hear of anyone selling below the stipulated prices they write to him or send a representative to call on him. They have sent a representative, they say, from London to Scotland because one of their articles was cut 1d. By one means and another they have succeeded in keeping the price of vinolia goods from falling below the level they think should be the minimum, and they add, "while not a few important chemists have congratulated us upon our policy, the warmest and most complimentary letters have come from the cutters themselves."

AMERICAN MILLIONAIRES are somewhat numerous, for reasons which need not be discussed here. The dollar has something to do with it, but even at that we question if the United Kingdom can in five generations produce as many millionaires in the drug, chemical, and patent medicine trades as we note below. We have these facts from the *New York Tribune*:—*Drugs*: R. A. Robinson, E. J. Hart, J. L. Lyons, Theo. H. Eaton, Franklin King, J. S. Farrand, A. Sheley, C. F. G. Meyer, R. S. Hale, Van W. Brinkerhoff, G. W. Comstock, C. Griswold, W. H. Hall, G. Kemp, D. S. Riker, J. L. Riker, W. S. Schiefflin, S. B. Schiefflin, H. M. Schiefflin, H. J. Baker, J. L. Thompson, Clayton French, and J. Wyeth. *Chemicals*: J. Tyson, A. Cochrane, M. Kalbfleisch, J. L. Morgan, Daniel Bangh, Mrs. J. C. Harris, C. Lennig, and W. Weightman. *Proprietary and Homœopathic Medicines*: C. Wakefield, Charles A. Vogeler, G. G. Green, Dr. R. V. Pierce, Mrs. G. S. Bacon, Mrs. J. S. Ayer, F. F. Ayer, H. S.

Ayer, G. N. Curtis, D. Jayne, Dr. F. H. Humphreys, W. B. Moffatt, Mrs. L. J. Pearson, H. H. Warner, J. R. Whiting, B. Brandreth, Dr. N. B. Wolfe, Mrs. H. Du Puy, Mrs. D. Hostetter, and T. Hostetter. *Glycerine*: R. G. Mitchell. *Vaseline*: R. A. Chesebrough. *Baking powder*: V. C. Price, Dr. C. N. Hoagland, and J. C. Hoagland. *Extracts*: W. W. Skiddy. *Quicksilver*: T. Bell, E. Barron, and J. Milbank. *Sulphur*: W. Gray.

VARIABLE NITROGEN.—Lord Rayleigh has made nitrogen in two ways, and is troubled with the fact that one is $\frac{1}{1055}$ lighter in atomic weight than the other. In the first method of preparing the gas the oxygen of atmospheric air was removed in the ordinary way by metallic copper, itself reduced by hydrogen from the oxide. The air, freed from CO_2 by potash, gave up its oxygen to copper heated in hard glass over a large Bunsen, and was then passed over about a foot of red-hot copper in a furnace. This tube was used merely as an indicator, and the copper in it remained bright throughout. The gas then passed through a wash-bottle containing sulphuric acid, thence again through the furnace over copper oxide, and finally over sulphuric acid, potash, and phosphoric anhydride. In the second method of preparation everything remained unchanged, except that the first tube of hot copper was replaced by a wash-bottle containing liquid ammonia, through which the air was allowed to bubble. This method was very convenient, but the nitrogen obtained by means of it was $\frac{1}{1055}$ part lighter than the nitrogen of the first method. The question is, to what is the discrepancy due? Is it possible, he asks in *Nature*, that the difference is independent of impurity, the nitrogen itself being to some extent in a different (dissociated) state?

COLOUR OF THE ALKALI METALS.—Mr. G. S. Newth reports to *Nature* that he has examined several of the alkali metals in thin layers distilled upon the edges of sealed tubes, from which all oxygen and oxidation products were most rigidly excluded, and he finds that, viewed by transmitted light, the colour of sodium is greenish-blue, inclining to green; potassium is of a magnificent rich purple colour, and rubidium forms a film which is a pure indigo blue. In the cases of sodium and potassium, the colour of the metallic sublimates is different from the colour of the vapour as seen when the metals are boiled in an atmosphere of hydrogen. Potassium, under these circumstances, yields a vapour possessing an emerald-green colour, while that of sodium which appears colourless when seen in small layers, shows a violet or purple colour when viewed through a sufficient thickness. When the liquid alloy of sodium and potassium is treated in the same way, the sublimate obtained is found to be greenish in colour nearest to the source of heat, quickly shading off to blue and purple as it is more remote from that point—indicating, apparently, that the two metals sublime separately. Lithium, cadmium, mercury, arsenic, tellurium, and selenium were also tried, but produced no colour.

"VERY 'cute little dodge of that druggist, selling me that porous plaster with the privilege of returning it if it did no good." "Well, why don't you return it?" "I can't get it off."

GROCERS AND PATENT MEDICINES.—A correspondent of the *Grocer* thinks that it is time the patent-medicine difficulty should be settled, and that the Pharmaceutical Society should declare what constitutes a poisonous patent. It is useless to defend the sale of such articles as chlorodyne by grocers, but it seems trivial to interfere with the sale of articles containing a slight percentage of opium. The patent-medicine proprietors should attempt to arrive at some satisfactory arrangement with the Pharmaceutical Society on the subject.

REVIEWS

AND LITERARY NOTES.

A Short Manual of Analytical Chemistry, Qualitative and Quantitative, Inorganic and Organic. By John Minter, M.A., Ph.D., &c. Fifth edition. London: 1892. Simpkin, Marshall, Hamilton, Kent & Co. (Limited), and Baillière, Tindall & Cox. Large 8vo. Pp. 212. 6s. 6d.

WE have none too many reliable works on analytical chemistry for pharmaceutical students. This is one of the few, and, although the book is well-known through many years' use, we feel inclined to treat it as a new work, especially since many recent introductions into the *matéria medica chemica* must have necessitated many alterations, and the changed aspect of the pharmaceutical examinations is compelling students to seek that thoroughness which it is always the aim of a good teacher to encourage. Dr. Minter's book may be roughly divided into four sections; first, the detection by analytical processes of inorganic bases and the inorganic and organic acidulous radicals associated therewith to form salts; second, the chemical properties of and tests for alkaloids and other organic substances of a more or less basic or definite character; third, quantitative processes—viz, volumetric and gravimetric analysis; and, fourth, special analytical and physical processes adapted to the examination of drugs, pharmaceutical and technical products, foods, water, urine, soaps, &c. If we were to analyse the book further it would be seen that it goes far beyond the scope of the two pharmaceutical examinations, and covers departments of analysis which an intelligent pharmacist can profitably cultivate along with retail pharmacy. Our object at present, however, is to indicate the efficient instruction which the manual provides for examination purposes. There is nothing of the cram kind about the method, but there is adequate systematisation, and a graduated course of exercises which is a fair encouragement of the reasoning-powers of the student and, at the same time, teaches him the distinctive properties of the substances which he may handle day by day. Some of the tables, or "charts," are of special value, and they are very numerous; many of the tests have been originated by the author, and he gives fuller attention to alkaloidal, glucosidal, and synthetical medicines than is usually the case in books of the kind. We can confidently recommend the book to Minor and Major students as a complete guide for their practical chemistry.

"*Chromas Kalicus (K₂CrO₄) beschouwd als het meest praktische Reagens op de Zuiverheid der Kine en hare Zouten.*" door Dr. J. E. De Vrij, te 's Gravenhage ("Potassium Chromate Considered as the most Practical Reagent to ascertain the Purity of Quinine and its Salts," by Dr. J. E. De Vrij, the Hague).

THE veteran quinologist, who in this pamphlet gives a *résumé* of his work on the chromate test for quinine and other cinchona alkaloids, has not lain idle under the adverse criticism to which his proposal was subjected when first made. There were one or two slight improvements possible in conducting the test, and these he now sets forth in the pamphlet before us. It is necessary, he points out, that the neutral chromate of potash used in the test should be chemically pure, and a solution of it is made by dissolving 5 grammes in 95 c.c. of water. Along with this in testing the alkaloids he uses a solution containing 5 grammes of sodium hydroxide in 95 c.c. of water. To perform the test in the case of quinine sulphate, take 1 gramme of the salt and dissolve it in 40 c.c. of water by heating; while hot add to the solution 6 c.c. of the potassium-chromate solution. The immediate result is that the mixture is changed into a thick sludge, and it is now set aside for some time so that complete separation may take place at a temperature not exceeding 15° C., ice being used to cool it if necessary. Then the mixture is filtered through glass wool, and a drop or two more of the chromate solution added to ensure that the whole of the alkaloid has separated, although this is a

refinement of caution. Filter through the precipitate again, and to the filtrate add 9 or 10 drops of the soda solution. If the quinine is free from quinidine, cinchonidine, &c., the solution will remain perfectly clear, there being no opacity or precipitate at all at the end of a day, but percentage of impurity reflects itself in the condition of the alkaline fluid—e.g., a salt which would pass the British Pharmacopœia test would give abundant evidence of impurity by a bulky precipitate on the addition of the soda. The value of the test depends upon the fact that quinidine and cinchonidine chromates are comparatively soluble salts, whereas quinine chromate is almost insoluble (1 in 2,650). The Doctor puts these facts very forcibly in his pamphlet, and as it is in Dutch this brief reference to it may be useful to those who would determine the absolute purity of quinine. The test is equally applicable to the hydrochloride and hydrobromide of the alkaloid.

Adressbuch der Chemischen Industrie des Deutschen Reiches. 1892. Herausgegeben von Otto Wenzel. Berlin: Verlag von Rudolf Mückenberger, Dessauer Strasse 13.

MR. OTTO WENZEL, the compiler of this work, is the General Secretary of the Society for the Protection of German Chemical Industries, and therefore particularly well qualified to undertake the task (which becomes heavier with every succeeding issue) of compiling a complete address-book of manufacturers of and dealers in chemicals in the German Empire. The besetting drawback of most directories is their inaccuracy and incompleteness. This applies especially to English-speaking countries where registration of private firms is not compulsory, and the compiler must therefore depend upon and take for granted whatever information may be vouchsafed him upon personal application. But, so far as we are able to judge, no such drawbacks cleave to Mr. Wenzel's book. The work is divided into three parts, treating respectively of chemical factories and laboratories, raw materials, and trading firms.

Pharmaceutical and Chemical Problems and Exercises in Metrology, Percentage and Proportion, Fortification, Dilution, Specific Weight, Thermometry, Chemical Formulas, and Equations. By Oscar Oldberg, Ph.D. Second edition. Chicago, 1892: The Apothecaries' Co.

A "QUIZ" book, containing more than 2000 questions and 900 chemical equations. It is adapted for class-work, and home usage. It is a remarkable production, the selection of the questions being catholic in the extreme, and well calculated to exercise the thinking faculties of the students, and to facilitate the application of the principles which they have learnt through lectures, &c. It is intended for American students, and covers all branches of pharmaceutical knowledge.

A Handy Book on the Formation, Management, and Winding Up of Joint-Stock Companies. By William Jordan and F. Gore Brown. Fifteenth Edition. London: Jordan & Sons, 120 Chancery Lane. 3s. 6d.

THE remarkable development of the Joint-Stock system in modern business, modified as it usually is nowadays by the application of the principle of limited liability, renders a book of this kind a growing necessity. The Acts of Parliament which have been found necessary to regulate companies are now so numerous, and the application of them by the Courts so important, that the value of a codification of the law to persons interested is obvious. In the book before us this is done as completely as is necessary under ordinary circumstances, and with the utmost clearness. The duties, risks, and rights of promoters, vendors, directors, and shareholders can be readily ascertained by reference to this volume.

The Best Thing to Do. By C. T. S. Thompson. London: The Record Press, 376 Strand. 1s.

THIS is a scratched-together collection of bits of trite advice quite unworthy of publication. That pork and ices are not suitable for persons suffering from liver derangements, that headache may sometimes be relieved by a cup of tea, and

that tea is not always readily obtainable in Continental hotels, are items of information in general circulation, but which people generally do not usually charge a shilling for. We are glad to observe that Mr. Thompson does not aim by his 53 pages to supersede the Medical Practitioner.

A Guide to General Health and Longevity. By W. Gordon Stables, C.M., M.D., &c. London: George Pulman & Son, Thayer Street, W.

FOR triteness and imperfection Dr. Stables' flimsy book matches well with the one last noticed. But it has, or appears to have, a definite object, which is that of advocating the merits of Messrs. James Allen & Son's portable Turkish baths. From the advertisement point of view it is not badly done, but it is not worth paying for.

The Practical Treatment of Cholera. By G. Sherman Biggs, A.M.S. London: The Record Press. 1s.

THIS brochure contains sensible advice by a doctor who has had experience of the disease in India, and was not too proud to learn from a native doctor.

A Primer of the Art of Massage for Learners. By Dr. Stretch Dowse. Bristol: John Wright & Co.

A NEAT little book, in which the principal operations of massage are explained as clearly as they well can be by print and illustrations. The author is an enthusiast in regard to the practice, and some readers may fancy that he treats it with a little ultra respect, as, for instance, when he insists that the action of the masseur is an illustration of the transference of energy from the masseur to the person kneaded. On this principle a knock-down blow should leave the victim with the strength of his assailant.

Fever Nursing. By Mary Harris. London: The Record Press. 1s.

CONTAINS in a small compass accurate and thoughtful instructions, showing what a nurse is to do and what she should watch for in cases of scarlet, typhoid, and typhus fevers, chicken-pox, measles, and small pox.

The Physician Himself, and Things to Concern His Reputation and Success. By D. W. Catheil, M.D. (Baltimore). Philadelphia and London: The F. A. Davis Co. 11s. 6d.

THIS is the tenth edition of a book of advice, written, we suppose, by an old hand for the benefit of young ones. The author does not seek to convey medical instruction, but aims to teach that unteachable art called tact. He discourses on all the relations between the physician and his patients, pharmacists, and quacks. He is rigidly orthodox; the irregular practitioner, especially the homœopath, the prescribing pharmacist, the patient who does not pay regularly, and the one who makes too much use of the physician's prescription, all come under his lash. There is an immense lot of practical reading in the 340 pages of this book, but it must be said that the greater part of the teaching is what a gentleman does not need, and what the man not a gentleman cannot be taught.

Ringworm: Its Constitutional Nature and Cure. By J. Compton Burnett, M.D. London: The Homœopathic Publishing Co. 2s. 6d.

DR. BURNETT'S study of ringworm is interesting, original, and striking. He, of course, recognises that it is a parasitic complaint, but he does not consider it a disease of the skin any more than he would regard gout in the big toe as a disease of the toe, or a furred tongue as a disease of the tongue. He believes that the ringworm trichophyton "is not the disease itself but its organic scavenger." According to his theory, really healthy children will not catch ringworm. It is an indication of a certain strumous condition, more or less allied to tuberculosis. That condition existing, it is so far a sign of strength that the patient is able to throw it to the epidermis; and having thrown it to the epidermis it is

an advantage rather than otherwise that the ringworm parasites should appear to consume it. On this theory it is obviously the wrong treatment to attack the fungi with germicides. They are doing their best to destroy the toxic emanations; and if this good work is prevented, other illness may, and Dr. Burnett says does, in some cases at least within his knowledge, supervene. Dr. Burnett gives high potencies, that is, extremely infinitesimal doses of tuberculinum. Koch gave this in appreciable doses and killed patients with it. He did not know the homœopathic law of the opposite effects of the same remedy. By giving infinitesimal doses of tuberculinum Dr. Burnett claims to have cured a number of cases of ringworm. That is the proof by which his theory is to be tested. The cases he reports might probably be sharply criticised, and it must be admitted they are scanty enough when they are required to support so large a thesis. But any one who will read the argument will at least admit that it is ably presented, and that there may be something in it.

A Short Manual of Inorganic Chemistry. By A. Dapré, Ph.D., and H. Wilson Hare, Ph.D. Second Edition. London, 1892: Charles Griffin & Co. (Lim). Crown 8vo, pp. xvi. + 365. 7s. 6d.

WITH the exception of a few emendations and corrections this edition is a reprint of the work which was favourably commented upon six years ago. It is unnecessary, therefore, to refer to it now at any length. It is essentially a manual for students, and is well liked by them.

Proceedings of the Pennsylvania Pharmaceutical Association

AN excellent report of the proceedings at the fifteenth annual meeting. Attendance at these meetings must be a real treat, especially when there is a humourist for president, as was the case with this association in Salt Lake City. We hope to refer to some of the practical topics in the proper section by-and-by.

WORKING-HOURS IN BONDED FACTORIES.

DEPUTATION TO H.M. BOARD OF CUSTOMS.

A DEPUTATION of manufacturers of perfumery in bond who are connected with the Essence and Perfumery Section of the London Chamber of Commerce waited upon H.M. Board of Customs, at the Custom House, on Wednesday, November 16, for the purpose of urging the Board to grant an extension of the hours during which manufacture in bond could be carried on. The deputation consisted of Messrs. James Chambers, C. A. Gosnell, E. V. Barrett, George Oppenheimer, E. F. Langdale, F. Cleaver, Thompson, Charles Forbes, and J. Grossmith. Mr. Chambers having introduced the deputation,

Mr. E. V. Barrett said that they appeared there that day as a united representative body of the perfumery trade working in bond. The hours they now worked were from 8 to 4 in summer and 9 to 4 in winter. Now, if they were employers of clerical labour only, the hours from, say, 9 to 4 might be reasonable, but as employers of manual labour, he thought the hours they were restricted to were most unreasonable. They had to compete in the products they had to sell with the working population of countries abroad, where greater facilities were enjoyed. The usual hours of work where the trade was carried on out of bond were from 8 A.M. till 7 P.M. They asked to be allowed to work from 8 A.M. till 6 P.M. all the year round. The present restriction of hours caused a direct increase in the cost of production of their articles. Having shorter hours, they were bound to have more men, and if they had more men they had to have larger premises, an increased wage-roll, and an increased rental. In France and Germany the hours of labour were unrestricted, and also, he believed, in Belgium and Holland. In Paris the manufacture was carried on under a system by which they paid duty quarterly on all quantities used for home consumption. A Revenue officer took account of all

the spirit taken into the manufacturers' premises, and of the goods declared to be for export, periodically. With such facilities in France, they were not placed in a fair position to compete. Similar facilities to those now asked for had been granted so recently as April last to the outdoor service of Customs in the unloading of ships, where the importers had the privilege of requiring the presence of the Custom-house officer from 6 A.M. till 6 P.M. That had been brought about, after a year or two's trial, in the port of Hull. After consultation with the Dock Company in whose premises they carried on their business, it had been agreed that the officers of the Dock Company should stay until 6 o'clock as soon as they could get the necessary permission from the Customs, so that there was no immediate hindrance to carrying out the scheme at once if they could secure the permission of that Board. The Board had pointed out that it was open to those firms who wished an extension of the hours to adopt the alternative of working under the Excise under the new drawback regulations, but they were not able to avail themselves of that alternative—for one reason, because many of them had leases to run sundry periods up to four years. If they threw up these they should have to compromise with their landlords. At present their workmen in bond had to be transferred from one factory to another about 4 P.M. every day. If they had lengthened hours they should have two distinct staffs of men—one to be constantly employed at the bonded warehouse, and the other at the town factory. Again, the regulations which had been recently issued for the payment of drawback to those manufacturing out of bond made an allowance of 4 per cent. for waste in working. So far as the loss from maceration and manipulation of raw products was concerned, probably that 4 per cent. would just about cover it, although some of them were inclined to think that there would be a loss. The Excise authorities, however, had made no allowance for loss in strength of spirit. Their perfumes were tested for the strength of spirit by the hydrometer, but as they had to add certain things to the perfume, such as extract of vanilla,orris-root, and various resinous gums, the hydrometer did not indicate the true specific gravity, and they therefore did not get credit for all they sent out. In the case of the druggists who sent out their goods in quantities of, say, 1 lb. to 4 lbs., it was possible for the Excise officer to test, not by the hydrometer, but to take a fair sample of each article and take it to Somerset House, and discover the exact strength of the spirit, when the druggist got a full "drawback." But they were not in that position. They sent out hundreds of different kinds of bottles, so that it was impossible for the Excise officer to treat them on that basis. From a series of experiments he had made he found that the loss by the testing of the spirit was at least 2 per cent., and for that they had no allowance whatever. They were, of course, in a favoured position working with duty-free spirit.

The Chairman: Are you not in a more favoured position than those who work under the Excise?

Mr. Barrett: Yes; that is so. If we joined them we should lose 2 per cent., and that means a good deal on a large turnover.

Mr. Gosnell suggested that the Board might consider the advisability of making a temporary arrangement.

Mr. Barrett, in supporting this suggestion, pointed out that the most of the warehouses lay close together, and that there would not be much attendance required from the officers.

The Chairman said that while it might be true that not much attention would be required on the part of the Custom-house officers after 4 o'clock, it was more a matter of principle with the Board than anything else. There were something like 1,500 warehouses in the United Kingdom, and if their request was acceded to, the Board would immediately be met with similar demands from other quarters. The trade were agitating for longer hours, while the servants of the Customs were asking for shorter hours. The matter, however, would receive careful consideration, and the Board's decision would in due course be communicated to the Chamber of Commerce.

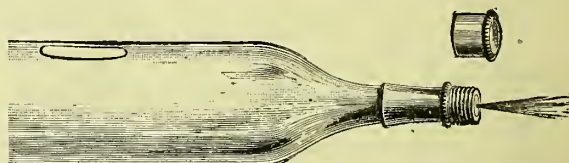
SPECTACLES are not carried by post if the fact that the parcel contains spectacles is marked outside.

Trade Notes.

WE have had a number of inquiries regarding the Druggists' Exhibition since the publication of a preliminary note regarding it in these columns. Farther particulars regarding it are given in our advertisement section this week.

MR. H. J. DEACON, of Beckenham and St. Leonards, has bought from the Official Receiver, who is trustee to the estate, all the proprietary rights and trade-marks in Burgess's "Lion" ointment, pills, and nerve-tonic, formerly manufactured by Mr. E. Burgess, of Holborn. The preparations will henceforth be manufactured at 15 Bromley Road, Beckenham.

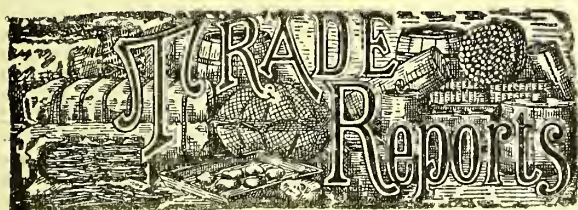
MR. B. KUHN, of 36 St. Mary-at-Hill, has been appointed sole wholesale agent for the United Kingdom and the colonies of Dr. Bengué's patent ethyl-chloride bulbs, and keeps stock of all shapes. These bulbs are intended to supersede the glass tubes of ethyl chloride hitherto used for producing local anaesthesia and as a remedy for neuralgia. Instead of breaking off the nozzle, however, Dr. Bengué's bulbs are provided with a screw metal stopper, so that the



bulb can be used again and again until the last drop of liquid has been exhausted. On removing the stopper and holding the bulb in a horizontal position the warmth of the hand is sufficient to eject a fine spray of the chloride through an imperceptible orifice, with much force, soon producing numbness in the part to which it is applied. Each tube contains about a fluid ounce of the liquid.

PEARS'S CHRISTMAS ANNUAL, 1892, is striking evidence that the company is not disposed to be any less lavish than the private firm was in the matter of Christmas literature. Last year Pears's Annual was a splendidly illustrated reproduction of Dickens's "Cricket on the Hearth," and with it three fine chromo-lithographs were presented. This year the literature consists principally of Dickens's "Christmas Carol," the never-to-be-forgotten story of old Scrooge, Bob Cratchit, Tiny Tim, and all the rest of them. This is illustrated with twenty-seven entirely new pictures by Charles Green, R.I., and with the book four coloured plates are presented, all of different characters, three from original paintings, and the fourth being a tinted representation of "The Dirty Boy." The covers of the Annual will perhaps prove the greatest attraction of the whole. One is a coloured representation of John Leech's drawing of "Mr. Fezziwig's Ball," and the other is a cleverly-designed coloured medley of a number of Pears's artistic successes. The dirty boy is carrying the half-cleaned portrait of a society heauty of last century, while his grandmother is nursing the plump little baby just out of his bath, who is reaching after one of Sir John Millais' bubbles and perhaps won't be happy when he gets it. The two bare-headed monks are studying complementary colours, while a pretty girl is wishing us good morning from an open window. The Annual is well worth anyone's shilling, and will no doubt have a great sale.

THE HOLBORN GUARDIANS AND THEIR DISPENSERS.—At last the Guardians of the Holborn Union have come to see that it is desirable to separate the offices of assistant medical officer and dispenser at their Highgate Infirmary. At a meeting of the Guardians on Wednesday night Mr. Miller (chairman of the Infirmary Committee) brought up a recommendation, in which his committee withdrew their previous proposal to combine the posts of assistant medical officer and dispenser, the committee being of opinion that the sick poor would be better cared for if the posts were distinct. The Board agreed to this; and Mr. Hedley (Local Government Board inspector), who was present, apparently endorsed it.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

The London Markets.

42 CANNON STREET, E.C., November 23.

Genuine and Spurious Cubebs.

Some months ago Mr. Holmes forwarded to the Java Botanic Gardens specimens of two varieties of cubebs met with in commerce, designated by him as "false" and "genuine" cubebs, and which he found to give different reactions when tested with concentrated sulphuric acid, with the request that the Director should apply these tests to the growing fruit of the two varieties. This has been done, with the result (as we learn from *Teysmannia*) that Mr. Holmes' genuine cubebs proved to be the fruit of the cubeb-bearing vine known in the Sundanese language as "Rinoe-Katoentjar," while the spurious cubebs emanated from a plant known as "Rinoe-badak." The botanical names of the two plants are not given in *Teysmannia*; but the two appear to be very closely allied, and to be used indiscriminately by Java planters for the cultivation of cubebs for commercial purposes. Unfortunately the two plants, though offering slight botanical differences, appear practically identical to the untrained eye, and the difficulty of distinction is enhanced by the fact that the leaves of the cubeb-vine are extremely irregular in shape. Those of the genuine plant ("Rinoe-Katoentjar") are generally smaller and more oblong than those of the "false cubebs with mace-like odour." The ends of the stems and the young leaves are also of a much less pronounced violet colour.

Dutch Government Opium Detained in Constantinople.

Some time ago the Turkish Government, appointed a "Medical Commission," ostensibly for the purpose of checking the importation of articles prejudicial to health. This Commission was instructed to analyse imports of foods and drugs upon their arrival in the country and, if necessary, to confiscate them. Merchants complain loudly of this new law, but the officials and the smugglers appear to be highly satisfied with it. The Commission, not content with looking after foreign goods, has recently extended its "supervision" to the produce landed from one Turkish port at another for reshipment. One of the results of this watchfulness is illustrated by an aggrieved correspondent of the *Levant Herald*. That gentleman writes:—

Large contracts for opium have been recently made by Constantinople merchants with the Dutch Government, with fixed deliveries at Amsterdam and heavy penalties in case of non-delivery. As this opium has to be the pick of the finest qualities produced in Turkey, for which 20 per cent. above the usual price is paid, and as Smyrna is the largest opium market, the Constantinople sellers have had to secure the bulk of their stuff in Smyrna, and to bring it up to Constantinople for repacking according to the requirements of the Dutch Government. On arrival of large parcels of this opium on November 3 they were seized at the Custom House on the plea that they might be adulterated, and notwithstanding the representations of the merchants that if the stuff were not given up they would fail to meet their Amsterdam deliveries, these parcels were still undelivered on November 7.

Meanwhile the merchants are losing interest on their goods, and risk

being mulcted in heavy indemnities through non-delivery of their goods in Holland at contract dates, and the whole opium trade has received a very serious shock. It is not that they fear the result of the analyses if properly conducted, but they fear the results of improper analyses and their inevitable consequences.

A Co operative Orange-flower Distillery.

The orange growers in the South of France have long been dissatisfied with the terms paid them for their produce by the local distillers, who are their only possible customers. They have, therefore, decided to form a co-operative society for the distillation of their produce and the sale of oil of neroli, orange-flower water, and the like. It is estimated that the cost of the factory to be built, with plant and other necessities complete, will be 200,000*fr.* This money the promoters hope to raise, in 100*fr.* shares, among the local growers. Each shareholder will undertake to deliver the whole of his produce to the society, and it is estimated that the output of the first season's work will be 600 kilos. of oil of neroli and 600,000 litres of orange-flower water. The sale price is expected to be 300*fr.* per kilo. for the oil, and 0 50*fr.* per litre for the water, and upon this basis the society will be able to pay the growers 0 65*fr.* per kilo. for their flowers and a dividend of 7 to 8 per cent. on the capital.

ACID (CITRIC).—A lifeless market, at 1*s.* 5½*d.* to 1*s.* 6*d.* per lb. Concentrated juice is declining, 18*l.* 10*s.* f.o.b. being asked for prompt, and 17*l.* 15*s.* to 18*l.* for December shipment.

ANISE (STAR).—On the Continent not a single case is known to exist in importers' hands, and in London there are only a few cases in second hands. The quotations in this position are, therefore, quite nominal, 125*s.* per cwt. being the last price recorded. Between 100 and 200 cases, however, are afloat, and due in the course of about ten days. It is said that the dealers in China have oversold themselves to a considerable extent. To-day's quotation is 87*s.* per cwt., c.i.f., for December-January shipment.

ARSENIC.—The market keeps very firm at 13*l.* 10*s.* per ton for white powder, landed.

BALSAM (PERU).—A considerable business has been done recently at prices advancing to 4*s.* 5*d.* per lb. for good quality. This is the closing quotation; but there is nothing left in first hand.

BROMINE.—The new German-American compact is for a term of five years. There has been no further change in the price of bromide of potassium, but American brands in second hands are offering at 1*s.* 4½*d.* to 1*s.* 4¾*d.* per lb. from second hands, and business has been done at those figures this week.

CALABAR BEANS.—Small sales continue to be made at 1½*d.* per lb. in Liverpool. Since then, however, 2*d.* per lb. has again been paid for a small quantity.

CAMPHOR (CRUDE).—The market remains nominally very high, but no business has been reported for several days. The last sales of Japan camphor were at the rates of 160*s.* per cwt. spot, and 150*s.*, c.i.f., for distant shipment. There are buyers of Japan camphor for September-October shipment at 155*s.*, c.i.f. terms, but no sellers.

CINCHONA.—The exports from Ceylon between January 1 and October 31 have been:—1892, 5,585,630 lbs.; 1891, 4,715,038 lbs.; 1890, 7,195,713 lbs.; 1889, 7,876,144 lbs. Next week's London sales will be rather extensive, about 1,900 bales having been declared already. The first arrivals of the new season's Wynaad cinchona are shortly due, and in the spring months resumed imports of Bolivian cultivated Calisaya may also be looked for.

CONDURANGO.—There has been another arrival of 33 packages per *Britannia* from Valparaiso.

COPPER (SULPHATE) is advancing, owing to the rumoured negotiations for a copper-syndicate. On the spot 15*l.* 10*s.* has been paid, and for forward delivery very little is offering, as much as 17*l.* 10*s.* being quoted.

GALLS.—For fair China to arrive 48*s.* per cwt., c.i.f. terms, is asked.

GAMBIER.—A firm market with sales on the spot at 20*s.* 6*d.* per cwt. for whole block newly landed.

GOA-POWDER is very scarce, and chrysarobin has advanced in consequence.

GUM BENZOIN.—Our stock since last drug-auctions has been reinforced by the arrival of 57 packages *Sumatra*, 16 *Penang*, and 84 *Palembang*. No *Siam* gum has been received, however, and none will be offered at Thursday's auctions.

GUM KINO is very scarce, and 120s. per cwt. has been privately paid for good East Indian.

HONEY.—In Liverpool the article remains in good request. A parcel of fine white *Californian* honey has sold at 52s. per cwt.

INSECT-FLOWERS.—The market here is quite neglected, but in Trieste the article is rising. The present quotations from there are from 66s. to 71s. c.i.f., for closed; 52s., c.i.f., for half-closed; and 46s., c.i.f., for open flowers.

JALAP.—Privately, the market has been very firm; owners asking 1s. 8d. per lb. spot, and 1s. 6½d., c.i.f., for good Vera Cruz.

LIME-JUICE has been much quieter this week, and holders of good Jamaica would now accept 1s. 2d. per gallon, although they have refused 1s. 1½d. for a parcel.

LIQUORICE.—The gardeners in the neighbourhood of Pontefract are in the thick of the liquorice harvest, which promises to be far from satisfactory. The majority of the "quarters" are taken up after a growth of four or five years. The bad weather of the last few seasons has militated against their growth, and many of the roots are small.

OPIUM.—Our mail news from Smyrna, dated November 11, is to the effect that all qualities of opium have advanced somewhat, owing to the persistence of the drought and the doggedness of owners, who persistently refuse to give way. Large transactions have taken place (the total quantity which has changed hands during the week amounts to about 523 cases) at 6s. 6d. to 7s. for old and new talequale and 7s. 6d. per lb. for Karahissar. The market closes very firm. With regard to the application for an opium monopoly in Turkey, a correspondent says:—"The monopoly of opium for internal consumption would not be worth the working; the monopoly for the export of opium would be a return to medieval methods, for which any proposal would certainly be rejected by the Council of State. As a matter of fact, this body recently set its face against a monopoly of silk-worm eggs, although that industry is but an adjunct of a much larger one which would have benefited by the monopoly. It is therefore certain that the Council of State will not entertain the idea of making a monopoly of an article of international merchandise such as opium." A deputation of opium merchants, representing practically the entire trade in the drug in Constantinople, Smyrna and Salonica, has worked upon the Grand Vizier of Turkey to present a petition against the projected opium monopoly.

SHELLAC.—The market last week closed very firmly, with sales of 200 cases TN orange, November and December delivery, at 88s. per cwt. At the weekly auctions 787 cases were offered, of which 435 found purchasers at irregular rates, *Garnet* and *Button* lacs being slightly dearer; *Second orange* from 1s. to 2s. per cwt. lower. The prices paid include:—*Second orange*: Livery to fair pale flat worked at 34s. to 87s. per cwt.; fair to good bright curly, but rather out of condition, 84s. to 90s.; dark to reddish livery, 82s. to 84s. per cwt. *Garnet*: Strong, flat, unworked AC, 76s. to 77s. *Button*: Ordinary seconds, 88s.; fair thirds, 79s. per cwt. Since the auctions the demand has remained quiet, and only a few hundred cases *Orange* TN have been sold, at 87s. per cwt. for January delivery.

SODA SALTS.—*Caustic soda* is dull of sale, with some business for export from Liverpool at 9l. 10s. per ton f.o.b. for 70-per-cent. London quotes 10l. 5s., and on the Tyne the price for 76-77-per-cent. is 11l. 7s. 6d. for immediate delivery, and 10l. 10s. for next year. *Soda crystals* are worth 65s., landed (London makes 64s.), 62s. 6d. ex ship, and 55s. f.o.b. Tyne. *Nitrate* is firm at 9s. to 9s. 1½d., according to quality.

SPICES.—*White pepper* was very dull at Wednesday's auctions, and only about 50 bags Singapore were disposed of—ordinary dull to fine bold, at 4½d. to 5½d. per lb. *Black pepper* was offering plentifully, but could only be sold at lower prices. About 1,100 bags were disposed of at

an irregular decline—grey to fair Singapore at 3½d. to 3¾d., grey Aleppey at 3¼d. per lb. *Long pepper* is lower, with sales at 12s. to 12s. 6d. per cwt. *Zanzibar Chillies* are also cheaper, 20 bales fair bright quality of new import bringing only 52s. per cwt. *Pimento* is flat, but shows no further decline. Three hundred bales sold at auction, at 2½d. to 3d. per lb. for medium to good. *Ginger* is very slow. At auction the small supplies of African and Cochinchina ginger offered were all bought in, and only a few barrels Jamaica sold, at 51s. to 56s. for common to low medium. *Zanzibar Cloves* show a further slight decline, with sales at 2¾d. to 2½d. per lb. for fair to good bright. For delivery the market is also easier. Bold *Nutmegs* are inquired for, and bring full prices; all other kinds are dull. *Mace* is also slow of sale. *Cassia lignea* remains exceedingly dull, and small sales are reported at intervals, at the rate of 22s. per cwt. for usual good quality.

TEA.—The Congou market is very dull, and but little business has been done this week. Dealers are picking up the best of what remains of the good first-crop Oonfas and Kintucks, and these kinds are getting into small compass. A further arrival of new Oolongs met with a good demand and realised full prices. Assams are lower, and some useful Pekoe Souchongs and semi-leaf teas may be bought under 7d., and find a ready sale in the country, where retailers are evidently not overburdened with these grades. Assam Pekoes from 1s. to 1s. 6d. are in large supply and very cheap. Ceylons are easier, and, with a sprinkling of second-hand tea in sale, the "sick" feeling is accentuated and the bidding very slow.

TURMERIC remains very firm at 24s. per cwt. for *Bengal* and 17s. to 18s. per cwt. for dull *China* finger and bulb mixed.

VALERIAN-ROOT.—In the Hartz district of Germany very little valerian has been cultivated this year, and at present next to no root is to be had. Of Thuringian valerian there is no such lack, but the stocks of this description are very firmly held by the growers. *Belgian* root is offering here at 30s. to 31s. per cwt.

WAX (JAPAN).—A further rise is reported, sales of good pale squares having been made on the spot at 39s. 6d. to 40s., and for shipment the price is 34s. to 34s. 6d., c.i.f.

Thursday's Market News.

42 CANNON STREET, E.C., November 24.

WE have to report a very quiet week so far as the drug and chemical markets are concerned. To-day's drug-sales were rather lengthy, and owing to the fact that under the rules precedence had to be given to a considerable quantity of Vanilla (the first arrivals of the new crop), the auctions were prolonged until 4.30 p.m. The principal changes may be summarised as follows:—*Ipecacuanha* is decidedly lower, even more so for Cartagena than for Rio root; but very little was disposed of. *Tinnevely senna* is also easier, and cod-liver oil, blue Turkey galls, ergot of rye, and Cape aloes may be placed in the same category. *Cubebs* were slaughtered without reserve, while at the same time (see telegram) they were cornered in Holland by a speculator. *Buchu* leaves are at famine prices. *Socotrine aloes* and *Jamaica honey* are slightly firmer. *Sumatra benzoin*, musk, and beeswax "full-up." *Rhubarb* is lower. Advances have also taken place in gum ammoniacum, kino, nux vomica, vanilla, and saffron, while menthol, star anise (on the spot), Peru balsam, *Jamaica sarsaparilla* and *hycopodium* are held for more money.

The trade in fine chemicals has been almost a dead-letter this week, and we cannot report any changes. In other branches, sulphate of copper and gambier are dearer; shellac, spices, tea, and caustic soda easier.

The Bank rate still remains at 3 per cent. The Bombay and Calcutta exchanges to-day are 1s. 2½d., bar silver is worth 39d. per oz., and Mexican dollars 38d. per oz.

On November 16, the date of our correspondent's last letter, the drug market in New York was almost devoid of interesting features. The general jobbing is described as satisfactory, but no interest was manifested in large lots, and the sales were almost restricted to

current needs. Mexican *Vanilla*-beans are about the only American drug which commands much attention. The stocks of this drug are being steadily depleted and there is a general upward movement in the quotations on the various grades. Cuts command \$3.75 to \$4, while \$5 to \$9 is the range for whole beans in large quantities. There have been additional arrivals of *Balsam copaiba*, but no sales are reported, and quotations are unchanged at 35c. to 41c. as to quality. *Jaborandi*-leaves have been marked up to 70c. for such small lots as are available. HGH Oil of *peppermint* continues slow of sale; sellers ask \$2.57½ to \$2.60, which is not in accord with buyers' ideas. Prime *Sassafras* oil is scarce, and 37½c. to 40c. is wanted for it. *Senega* continues firm, though quiet, at 57½c. to 60c., while Mexican *Sarsaparilla* is dull and heavy at 7c. to 8c. Other roots remain unchanged. *Opium* has advanced, on the strength of London cable, to \$1.70 for druggists' opium in cases, with sales at that, and \$1.75 for broken lots, and \$2.30 to \$2.40 for powder. *Morphine* has also advanced, and Scotch and N.Y. Q. & C. is quoted \$1.40 in bulk, and \$1.70 in eighths. P. & W. and R. S. have not advanced their quotations. *Lycopodium* is lower and easier. Short *buchu* is higher, being quoted at 25c., and is scarce. *Tinnevely senna* is looking up, and the stocks are said to be concentrated and somewhat light.

ALOES.—Of *Curaçao* aloes 131 packages were offered, and sold at steady prices—good bright brown and capey mixed, in gourds, at 52s. 6d.; fair brown liver at 35s. to 42s.; dark mixed ditto. 30s.; fair capey, 20s.; common overheated and dull, 9s. to 10s. 6d. per cwt. Of *Cape* aloes 77 boxes were offered, but the demand was slack, and prices are barely maintained. Fine bright hard quality is still held at 22s., fair sold at 20s. to 21s., rather drossy mixed at 19s. 6d., and common stony at 9s. per cwt. Thirty boxes were sold. *Socotrine* aloes are rather dearer. A few cases were disposed of, at 100s. to 102s. 6d. for fair hard brown in skins, and 62s. 6d. per cwt. for rather dark ditto. We note another arrival of 25 packages *Cape* aloes from Mossel Bay.

AMBERGRIS.—Five tins were all bought in, from 100s. to 140s. per cz.

ANNATTO.—The market remains fairly steady, and a large parcel of 119 bags good bright seed from Ceylon sold at 2¼d. per lb.

ANTIMONY.—Fifty cases fair crude Japanese were bought in, nominally at 25l. 10s. per ton.

ARECA NUTS.—Out of a parcel of 46 bags, 10 sold at 27s. 6d. per cwt. to-day.

BALSAM (COPAIBA).—Three cases fair but somewhat cloudy *Cartagena* were bought in at 1s. 7d. per lb. Twopence less was suggested as the price.

BUCHU.—The single bale of round leaves, of good flavour but yellow colour, which was offered to-day sold at 1½d. per lb.—a fresh advance of 1d. per lb.

CANNABIS INDICA.—Thirty bags dust sold to-day at very good prices—viz., 2½d. to 3d. per lb.

CARDAMOMS.—The shipments from Ceylon between January 1 and October 31 were:—1892, 296,256 lbs.; 1891, 265,263 lbs.; 1890, 270,315 lbs.; 1889, 229,879 lbs. Of 133 packages offered to-day, and very firmly held by the owners, 57 sold at an irregular advance of about 4d. on fine and 2d. on medium qualities. *Ceylon-Mysore* medium to bold good pale plump realised 3s. 5d.; medium size, 2s. 6d.; and small, 1s. 4d.; small to bold pale and long, 2s. 2d.; medium ditto, 1s. 10d. to 1s. 11d.; small, 1s. 7d.; grey small to medium long and round mixed, 1s. 7d. to 1s. 8d.; mixed sizes grey and brown, 1s. 4d.; ordinary brown, partly split and dull, from 1s. 2d. to 10d. per lb. A lot of ordinary *Aleppy*, grey colour, split, realised 1s. 1d.; and for a rather better and bolder parcel 1s. 5d. is asked; very pale to fair *Seed* sold at 1s. 4d. to 1s. 5d. per lb., showing a steady value.

CASCARA SAGRADA.—A parcel of 30 bales of good quality was bought in at 50s. per cwt. to-day. There are no buyers.

CASSIA FISTULA.—Ten baskets of lean but sound pods sold to-day at 27s. per cwt.

CHAMOMILES.—On this market there is no demand, but from Belgium higher prices are reported—viz., 78s. per cwt. for fine pale, 70s. for secondary quality, and 57s. 6d. per cwt. for dull flowers. At auction 6 bags of fair pale Belgian flowers realised 6s. 4d. per cwt.

COLOCYNTH.—A parcel of 7 cases dull broken seedy grey Turkey apple was bought in at 10d. per lb.

OROTON-SEED.—For 8 bags dull Ceylon seeds 18s. to 20s. per cwt. was paid to-day.

CUBEBS.—A large quantity was offered to-day, over 160 bags being placed on sale; 26 of these sold without reserve at 5l. 7s. 6d. (one lot 5l. 10s.). This was a parcel of all genuine rather dusty berries from Singapore, without stalks, and the price shows a decline of fully 7s. 6d. per cwt. Another parcel, very stalky brown berries, realised from 87s. 6d. to 90s. per cwt., after which a bid of 85s. was refused; the decline in value on this parcel is fully 15s. per cwt. We hear that in Holland a large business has been done during the last two days at much higher prices, chiefly in consequence of orders from the States. One bag of cubeb-stalks sold here at 10s. per cwt. to-day.

DRAGON'S BLOOD.—Out of a parcel of 3 cases soft and good fiery lump one sold at 8l. 10s. per cwt. Another lot of 3 cases dull finger, partly broken, brought 105s. per cwt., without reserve.

ERGOT OF RYE.—*Russian* is being offered privately at 1s. 8d. per lb., c.i.f. London, without success. The market is generally much weaker. The best parcels in sale had not yet been offered when our report closed, but among several odd lots which had passed under the hammer no single one had succeeded in attracting buyers. Good sound Belgian and Russian mixed ergot was bought in at 2s. 3d. to 2s. 6d. per lb.

GALLANGAL.—Two bales sold to-day at 23s. per cwt.

GALLS (TURKEY).—There has been a little more demand for blue *Bassorah* galls lately, but at somewhat lower prices, which holders have shown themselves willing to accept; 55s. per cwt. is now the price for good quality. Smyrna blue galls may be had at the same price.

GAMBOGE.—Firmly held and in fair demand. Of 22 packages offered to-day 16 sold at 12l. 5s. per cwt. for good broken pipe of orange fracture; 11l. 5s. to 11l. 12s. 6d. for fair-coloured soft pieces to rather dull mixed broken pipe; and 10l. 5s. to 10l. 15s. for pickings.

GUARANA.—Four shillings per lb. is the price at which sales are reported to be made privately. At to-day's sales a package was bought in at that price.

GUM ACACIA is still arriving plentifully at Liverpool from Suez, and about 50 serons *Gehzirah* gum have been sold there at steady prices. Considerable sales of *Niger* gum are also reported to have been made. At to-day's drug sales several parcels were offered, but next to nothing sold. For *Turkey sorts*, pale hard glassy, 65s. would probably be accepted; but fine soft pale sorts are worth as much as 75s. per cwt.; small grey glassy picked gum brought 110s. per cwt.

GUM AMMONIACUM.—The market is rather higher—52s. per cwt. being now the price for good pale sorts, slightly blocky mixed. At to-day's auctions 2 cases were sold at that price.

GUM BENZOIN.—*Sumatra* gum is in demand, with sales at high prices. Sixty-nine cases offered to-day were mostly disposed of at 7l. for good pale almondly seconds with small red borders, 6l. 12s. 6d. to 6l. 17s. 6d. for more false-packed ditto. For a parcel of common thirds with very little almonds 48s. per cwt. is asked. Several lots of *Palembang* gum also sold, the commoner kinds at rather easier rates; medium to good bright realised from 35s. to 45s., common from 20s. to 22s. per cwt. Of *Penang* gum a parcel of good glassy almondly but very false packed brought 5l. 5s. per cwt.

GUM GALBANUM.—One bale of good clean genuine partly blocky gum sold to-day at 1s. 6d. per lb.

GUM GUAIACUM.—Only very common qualities were offered to-day, and for these there is not much demand. Of 21 boxes, 10 sold at 9d. for fair rather drossy mixed block, and from 5d. down to 3d. for broken block, dusty, woody, and drossy.

GUM MYRRH.—Steady, with sales of 10 bales good pale sorts at 80s. per cwt. at auction to-day.

PECACUANHA.—Only 30 serons *Rio* root out of our now considerable stock were placed on sale to-day. The first two holders were unwilling to sell at any decided decline on the nominal value, and bought in every bale; but the third owner sold freely, and succeeded in placing all he had to sell at a reduction of 4d. to 5d. per lb.: rather thin to fair stout mixed sound selling at 7s. 5d. to 7s. 7d.; one good lot at 7s. 9d. per lb. Of *Cartagena* root 20 packages were offered, part of which sold at about 1s. decline; good stout but damaged at 4s. 6d. to 4s. 7d. per lb. Seven bales of the spurious root (*Psychotria emetica*), of which a large parcel was recently landed in Liverpool, were offered, but could find no buyer. There were also 77 lb. of slightly-damaged root from Singapore (cultivated, it is said, in the Botanical Gardens there), but these were not yet sold when we went to press.

KOUSSO.—Of this article, which has now become almost obsolete here, about 165 lbs. were offered to-day—partly in bundles and loose, which was bought in at the nominal price of 2s. 6d. per lb., and partly in powder, guaranteed pure, of which a parcel was bought in at 3s. per lb. No bids were made.

MUSK.—Our stock has now, it is said, been very much reduced, and the importers foreshadow higher prices if any demand should set in. At auction to-day first pile Tonquin pods were slow of sale, small to bold thin grey skin and under-skin fairly dry, being bought in at 70s. per oz., and only 2 caddies selling, subject to approval, at 64s. per oz. for thin grey and brown skin with heavy under-skin, small to bold rather broken pods; of third-pile pods 9 caddies sold, small to bold rather skinny and unsightly, but dry and more or less spurious at 26s. to 27s. per oz. A few tins of China Cabardine brought 2s. 6d. per oz.

NUX VOMICA.—A parcel of 248 bags fair pale seed from Cochín realised 11s. 6d. per cwt.

OILS (ESSENTIAL).—A newly-imported parcel of 20 cases (each of two 35-lb. tins) from Sydney sold to-day at 2s. 6d. per lb., which was rather cheap as compared with the figures at which other parcels were bought in. Among the imports this week are 7 cases *Eucalyptus* oil from Natal. A parcel of 10 cases unworked *Cassia* oil was bought in at the sales at 3s. 3d. per lb. It was subsequently reported sold. Several parcels of Spanish oil of *Red thyme* and *Rosemary* were offered; the best of these sold at 2s. per lb. for the former, and 1s. 11d. per lb. for the latter, without reserve. We hear that in China, according to cablegrams received this week, no cassia oil whatever is to be had. Oil of *Anise* is offering from China at 1s. 4½d. per lb. c.i.f., bids of 1s. 4d. per lb. were cabled out this week, but have been rejected. A parcel of 12 cases of oil of *Pimento* from Jamaica was bought in to-day at 3s. per lb., a bid of 2s. per lb. having been refused. For 9 cases (each of 36 bottles) of *Cajuput* oil from Singapore a bid of 2s. 6d. each is to be submitted. For white Singapore oil of *Nutmegs*, 3½d. per oz. would be accepted. American oil of *Peppermint* is very dull of sale; a great deal has lately been sold for arrival, and 11s. 10½d. per lb. would be taken on the spot. Wayne County oil in tin may be had at 9s. 9d. per lb. The price of Cocking's Japan peppermint oil has been raised to 10s., and of the same brand of *Menthol* to 14s. per lb.

OPIUM.—The London market this week has been very quiet, and no change in price has occurred. Small sales of *Persian* are reported at from 8s. 6d. for ordinary up to 10s. 6d. for fine quality; and for *Salonica* opium 10s. 3d. has been paid for good old crop. For the rest the quotations remain practically the same as last week. Fine *Karahissar* has sold to some small extent at 8s. 3d. per lb.

RHUBARB is lower and rather neglected; 18 chests were offered to-day, but only two-thirds of these had been reached when we closed our report. Of this quantity 29 cases were disposed of at rather lower prices (especially for Canton root)—namely: *Shensi* bold round, fair coat, three-fourths pinky, one-fourth dark, at 2s. 2d.; ditto, medium size, at 1s. 8d.; and small druggists' at 1s. 11d. (subject); bold flat, fair coat, three-fourths pinky, one-fourth dark, 2s. 1d. per lb. Canton flat, small to medium fair coat, even pinky

fracture, rather spongy, 1s. 4d. to 1s. 4½d.; round small to medium coat, half pinky and half grey fracture, rather rough, 1s. 1d. to 1s. 3d.; good flat round mixed pickings, 1s. per lb.

SAFFRON.—A telegram has been received this afternoon from Spain, saying that the market there is rising rapidly, and quoting second to best Valencia at 25s. 6d. to 27s. per lb.

SARSAPARILLA.—Genuine grey *Jamaica* is exceedingly scarce, and there are only 2 bales of this kind left in the warehouse, for which 1s. 7d. per lb. is wanted. Of *Honduras* root 13 bales were bought in to-day at 1s. 6d. per lb. Lima *Jamaica* was also bought in at the rate of 1s. 4d. per lb. for sound. Some common to fair native *Jamaica* sold at from 1s. 1d. down to 10d. per lb.

SENNA.—The market in *Tinnevely* senna is rather unsettled, and there is a general feeling that we shall shortly have larger arrivals than have yet been received. At the auctions to-day about 450 bales were offered, nearly the whole of which sold at irregular but generally at rather easier rates. The bulk consisted of very ordinary quality, but the prices paid were from 7d. to 8½d. per lb. for medium to bold greenish, partly yellow; 4d. to 5d. for small and medium, partly specky; 2d. to 3½d. for ordinary dull small and grey mixed; and down to 1d. per lb. for very common stinky. *Tinnevely* pods realised 2½d. per lb. *Alexandrian* senna is neglected, and no sales of any consequence were made to-day; broken leaf is worth 6d. per lb., siftings 2½d.

VANILLA.—The first arrivals of the new crop were offered at auction to-day and met with very good competition, prices being on an average fully 1s. dearer, though good qualities realised about 1s. 6d. advance: fine, 7 to 8½ in., brought from 16s. to 19s.; good chocolate, 6 to 8½ in., 9s. to 16s. 6d.; 5 to 8 in., 10s. to 11s.; and ordinary common to foxy down to 2s. 6d. per lb.

WAX (BEES').—All varieties were in limited supply to-day, and the recent advance was well maintained. *Jamaica* wax sold at 7l. 10s. to 7l. 15s. for good red to yellow, and at from 6l. 15s. to 7l. 10s. for ordinary dark to fair. A few parcels of *Madagascar* realised 100s. to 105s., mixed to good pale *Australian* 5l. 17s. 6d. to 6l. 5s., and bleached white Calcutta 7l. per cwt.

THE DUTCH MARKET.

AMSTERDAM, November 17.

THE cinchona bark auctions to be held in Amsterdam on December 8 will consist of 80 cases and 4,801 bales (about 391 tons), divided as follows:—From Government plantations 65 cases and 372 bales (about 37 tons); from private plantations 15 cases and 4,429 bales (about 354 tons). This quantity contains: *Druggist's Bark*—*Succirubra* quills, 64 cases; broken quills and chips, 134 bales and 15 cases; root, 54 bales. *Manufacturing Bark*—*Ledgeriana* quills, 290 bales; broken quills and chips, 3,203 bales; root, 576 bales. *Officinalis* quills, 1 case; broken quills and chips, 30 bales. Hybrid broken quills and chips, 475 bales; root, 39 bales.

THE SMYRNA OPIUM MARKET.

(Telegram from our Correspondent.)

SMYRNA, Wednesday night.

SINCE last Thursday one hundred cases of the usual kind of manufacturing opium have been sold here at the rate of 7s. 5d., and afterwards of 7s. 4d. per lb. f.o.b. This is an advance of 6d. per lb. upon the prices quoted in my last message. Rains have fallen in the lower districts, however, and the market is expected to decline.

A CUBEK SPECULATION IN HOLLAND.

(Telegram from our Correspondent.)

AMSTERDAM, Thursday.

A SPECULATOR has bought up all the cubebs which were to be had in Amsterdam. He now holds the stock at an advance of 40 per cent. upon the previous rates.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulae consult the last volume, if you have it.

Letters, queries, &c., will be attended to in the order received.

The Conditions of Labour in Pharmacy.

SIR,—I read with much amusement your correspondent's letter on the subject of indoor berths, and am sure that many chemists' wives would, with me, advise "A Man of the World" to devote his energies towards making himself efficient in his business, instead of giving his attention to such trivial matters as the making of his bed, &c.

My experience has taught me that the more incompetent the assistant, the more he complains of the household arrangements, &c., and when the chemist can find that young men, to whom he now has to pay 60*l.*, 70*l.*, and 80*l.* per annum indoors, are capable of making an ordinary mixture and taking charge of the business for only a few hours at a time, then there may be a chance of their getting more consideration shown them—though I fail to see what is to become of a dispensing business if young men and master are to take their dinner-hour, afternoon smoke, and siesta, as your correspondent proposes. Doubtless he would have prescriptions treated as of secondary importance.

It is very few chemists who can so indulge themselves, and it is little enough time indeed that they can give to their wife and family during this dearth of good assistants.

When I was married it was my first aim to treat our assistants exactly as members of the family, and they were invited on Sunday afternoons to join us at dessert. This, and many other like privileges, I very soon found so abused that it was most unpleasant to ourselves to continue them, and young men have only themselves to blame for the loss of such considerations.

When we get *gentlemen* in the drug-trade, chemists' wives will be ready to treat them as such, but whilst young men show such a marked preference for associating with the servant, the lady of the house must decline to treat them as her equals.

Yours truly,

A CHEMIST'S WIFE. (172/31.)

SIR,—Every assistant must admire the manly way in which Mr. Sangster defends the indoor system from an employer's point of view. Therein lies the difficulty—that awful night-bell! I do not agree with him, however, that it is the assistant's fault, as a rule, if he is not comfortable. I have been employed in two indoor situations in a large provincial city where I was the only assistant. Every night after the shop was closed I was expected to answer the bell. Even on my Sunday "off" if, the weather being inclement, I stayed indoors, I had to answer it. Now, this should not be. Why should an employer not take his share of night-work? Why should the weary assistant who has, perhaps, been in the shop for three or four hours longer than his employer, have to do all the tramping about to the clanging of the bell? It is surely not too much to be at liberty every alternate night without begging it as a privilege. Why should it not be a right? Let all assistants, however, remember the beautiful words of Russell Lowell—

They are slaves most base

Whose love of right is for themselves, and not for all their race.

Then, are all the night-calls for really necessary medicines?

From my own experience I should say less than 5 per cent. are. Employers should stop this, and it is only by combination that it can be done. As matters stand, if Mr. Jones refuse to supply a bottle of hair-oil after hours, Mr. Smith will be all the more happy to do so.

Query: How can assistants lead the Society by joining it? They would have no vote.

I fully endorse "Man of the World's" remarks re "Mrs. Chemist." Undoubtedly she is the *bête noire* of the indoor man in a large majority of cases. She treats him as an interloper in the household, even more so than the humble "slavey." Everything is done to make him feel that he is in the way. It seems ungallant to thus attack the ladies, but there is only too much foundation for the accusation. I write from bitter experience, not from hearsay. Of course, there are grievances on both sides, and I have seen assistants whom I would not have in my house at any price.

I am, yours truly,

ROHAMI. (170/67.)

A Day's Dispensing.

SIR,—Whilst *la grippe* was so prevalent the early part of this year our daily output consisted of from one hundred and twenty to one hundred and forty prescriptions, each one being finished off "à la Française."

When I add that there are only three of us here, and that we had counter-duty to attend to as well, it may even surprise our larger brethren "The Stores."

Yours truly,

Croydon, Nov. 19.

OLD TIMES. (170/32.)

SIR,—On reading the letters of your correspondents on this subject, one is at first inclined to see a great discrepancy between them, for while one thinks from fifty to sixty a day's work, the other calculates about thirty. The difference is not far to seek. The one talks of "prescriptions" but the other of "items," and unless a man has been in a store, he cannot grasp the full meaning of this last word. I doubt whether "F. J. F." would have done his seventy-three in a day had they included such items as a gross or two of pills (perhaps pearl-coated), three dozen powders, or three to six dozen cachets. These things are by no means rare, nor is it an exceptional thing for a man to find at the end of the day four to six hundred pills on his list as part of that day's work.

Then, again, the hours are different. When I was at the stores we were expected to do the proverbial "sixty" between 9 A.M. and 6 P.M. For a "store" dispenser to do his "sixty" (or, counting copiers, finishers, &c., an average of about thirty-two all round) is, as "C. P." puts it, "down-right slavery." After twelve months of it the state of my hands would have qualified me to pass for a carpenter or other mechanic, had I aspired to such great things.

But to your original question. My experience is that if a man in an ordinary retail business gets through forty to fifty a day, including copying and finishing, he has done a fair day's work.

Yours truly,

November 21.

W. H. (171/19.)

SIR,—The greatest number of prescriptions I have ever dispensed is sixty-two—nearly three-fourths of which were new—including copying the new and repeating the repeats, and writing all labels and envelopes for same, besides attending at front counter when occasion required and dispensing for own prescribing cases—ninety-four being the number one day, with an occasional help at copying and writing of labels.

Yours faithfully,

Kensington, W.

G. W. E. (163/13.)

Questionable Postcards.

The Hampstead and Earlsfield gentlemen appear to have been somewhat industrious. The former wrote to Mr. J. W. Smith, of Stony Stratford, who, in reply, sent an old almanac of Silverlock's for 1890, in which many things are advertised "which," Mr. Smith adds, "I do not put up, but,

of course, soon could do, and stamp them too." To that the following reply was received:—

West Hampstead,
November 7, 1892.

DEAR SIR,—My letter must have miscarried. I wrote asking the prices of—

1. Anti-cholera medicine,
2. Digestive pills,
3. Chilblain-liniment, and
4. Toothache-tincture,

which are referred to in your small calendar for 1893. Will you kindly state prices?

Yours, &c.,

A. W. S.—.

Mr. Smith's price, 1s. 1½d., seemed to frighten off the inquirer, who has not since been heard of.

Messrs. Palmer & Son, Ramsey, tell us that they supplied the gentleman with two bottles of their proprietary medicines, duly stamped, as always sold over their counter. Messrs. Palmer "consult Mr. Alpe's 'Handy Bock' on all occasions before introducing any new medicine."

Mr. J. H. Longman, of Littlehampton, received one of the Earlsfield postcards, which had been posted at Waudsworth. Replying to a similar request, a Newhaven correspondent (170/8) sent a calendar, wherein "several preparations were advertised, two of which were priced at 1s. They were undoubtedly liable to stamp-duty, and were stamped. The following day he received a letter containing a postal-order for both of the above. They were sent. The curious part is that those priced at 1s. 1½d. were overlooked; but prices were asked of other preparations unpriced in the calendar. Chemists should learn from this to send their calendars, price-lists, &c., to protect themselves from this person, who is no doubt an Inland Revenue officer, who sits in his drawing-room and sweeps the country by the aid of a directory."

We have similar information from other parts of the country [Mr. H. Copestake, Bagshot; Mr. C. Whitcombe, Petworth, &c.]; but, so far, no victims.

"Only One Student."

SIR,—At a recent meeting in Manchester surprise was expressed that, after a large number of circulars had been sent out inviting students to attend the classes for pharmacy, &c., at Owens College, only one student appeared! Is it not surprising that even one should turn up for the classes, when we look at the state of things in that town? In the street in which the college stands, within the last few weeks, three chemists' shops have been given up; another, not far from the college, has been sold by auction; and a fifth chemist, not far out, has announced his intention to close his shop. The town contains a number of drug-stores, fitted up so exactly like a high-class chemist's establishment as to deceive ninety-nine out of every hundred passers-by. These not only use the familiar window-globes, but have screens inside the shop labelled "Dispensing Department," and have their shelves filled with bottles to imitate a chemist's shop, and sell poisons and dispense prescriptions containing scheduled poisons.

It is hard to see where students are to come from when chemists require to advertise in the papers for six months and more for apprentices; nor is it surprising, in view of the violent and unfair competition of the numerous drug-stores and cutting grocers, that parents should hesitate before allowing their sons to enter a calling which requires a long and expensive training, and offers in return nothing better to look forward to than a "portionless old age."

Yours truly,

A DOCTOR'S SON. (163/1)

A Steamy Window Application.

A Country Chemist (153/3) sends us a cautionary notice respecting somebody who is selling an article in 1s. 6d. bottles, to rub over windows to prevent them steaming. Our correspondent simply states that the thing is "all rot." We have no opportunity of checking this assertion. If the makers will send a sample to us we will try it and report exact results. Meanwhile we may advise any chemists to whom the article is offered to test it before buying.

The Croydon Pharmacopœia.

In reply to 123/33, the following "probabilities" are ventured:—

The names	What they mean
Oil of astick	Arsenic or vitriol
" aaron	Creeping leopard's-hane (<i>Aronicum scorpioides</i>)
" aspes	Oleum scorpionum
" ackham (?) or agram (?) ..	Agrimony or acorum (sweet flag)
" beed	Biellium carrot (<i>Daucus gummifer</i>)
" oxleys	Oxlip
" blue astick ..	Blue vitriol (?)
" clarrance ..	Clary (<i>Salvia verbenaca</i>)
" seagden ..	Alliteration of "scanden"—shepherd's needle or Venns's comb (<i>Scandiz Pecten-Veneris</i>)
" may	Bay
Tinct. gladmar ..	Gladwin (<i>Iris foetidissima</i>)
Oil of acklen (?) ..	Arachen or arachis—ground nut (<i>Arachis hypogæa</i>)

Query: What is "Unicorn-root"?

‘C. M., JUN. (32/100.)

Birmingham.

The names	What they mean
Oil of aaron	Oil of arum (cuckoo-pint)
" aspes	" aspen (ol. populeum)
" astick	" mastic
" sent	" Saint John's (wort)
" beed	" bays (ol. laurinum)
" may	" mace

The above are more or less conjectural, of course. The oil of aaron, however, is certainly oil of arum.

C. C. BELL.

The names	What they mean
Oil of aaron	Oil of heron (in practice generally ol. amygd. dulc.)
" aspes	Probably oil of hyssop
" oxleys	Ol. fœniculi
" man	" succini
" aspes	Adder oil, possibly
" dragon	Ol. lateris (what this is I don't know)
" dnty	" rhodei
" may	" carni (?)

These oils are usually wanted strong smelling and in small quantities, and it is safe to charge prices as fanciful as the names. One can conjure largely with ol. cassia, cymin, anisi, fœniculi, *et hoc genus omne*, and make a pretty penny. The "horsey" think they can tame ninnly horses by a nse more or less liberal, of these perfumes.

Ticehurst.

E. CORKE.

The Stability of Hydrogen Peroxide.

SIR,—I would be glad to know of some means of rendering peroxide of hydrogen more stable. I do not stock large quantities, for the simple reason that after having opened the bottle the remainder is considerably weakened, and sometimes ½ lb. becomes completely inert. I am aware that such a thing could be remedied by bottling it in small bottles, but that might be rendered unnecessary if the solution of hydrogen were made in something other than distilled water. Perhaps some gentlemen may be inclined to experiment with it. The results would be interesting, and, I hope, beneficial to the trade generally.

SPATULA. (166/11.)

Long Directions.

SIR,—In reference to your Hobart correspondent's dispensing query, I think there can be little doubt that "C. S. Ashton's" plan of using two bottles in a cardboard box is the correct one. But admitting the directions were intended for a 2-dr. bottle, it is rather surprising to me that none of your correspondents have thought of the possibility of the patient's sight not being so good as theirs, and that they might find it difficult to decipher such microscopic writing. No doubt such must frequently be the case. I

therefore think a better plan would be to go back to the old method of tying the directions around the neck of the bottle, written on a tally, or on a label stuck on to a tally. It seems to me the dispenser's object should be to make things as plain as possible for the patient.

Yours faithfully,

OVER TWENTY-FIVE YEARS IN THE TRADE. (155/3.)
South Devon.

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Potassium Iodide and Nitrous Ether.

101/12. *F. W. V.*—Aqueous mixtures containing the above without an excess of alkali to neutralise the nitrous acid, liberated by spirit of nitrous ether in presence of water, contain free iodine. Your prescription cannot, without alteration, be dispensed in any other than the iodated state.

Dangerous Physic.

SIR,—I wonder what the majority of your correspondents would do with this prescription? It was evidently a copy which was handed to me; the original was written in Calcutta and dispensed without scruple, or so I was told by a man for whose wife it was intended:—

Ext. ergotæ liq.	..	..	..	3viij.
Tr. ferri perchlor.	..	..	..	3ij.
Liq. strych.	..	..	..	3ij.
Syr. limonis ad	..	..	..	3vj.

A teaspoonful as a uterine tonic three times a day.

Pil. aloes et myrrh.	..	..	..	3j.
Ol. sabinæ	..	..	..	℥xxiv.
P. acaciæ	..	..	..	q. s.
In pil. xij.				

Two at bedtime, after a hot hip-bath.

Yours faithfully,

OVER TWENTY-FIVE YEARS IN THE TRADE. (155/3.)
South Devon.

A Salicylate and Nitrous Ether.

166/38. *Quinine* wants to know how he can prevent the deep-red coloration in the following mixture:—

Sodii salicyl.	..	..	..	9ij.
Tr. quin. ammon.	..	..	..	3v.
Mucil. acaciæ	..	..	..	3iv.
Vin. colch.	..	..	..	3ss.
Spt. æth. nit.	..	..	..	3ij.
Aque ad	..	..	..	3x.

3j. bis die.

It cannot be done. See "Art of Dispensing," page 132. Spirit of nitrous ether decomposes sodium salicylate, but in the present case the ammonia will prevent it.

A Pill Query.

SIR,—What is the best way of making the following pills?—

Iridin	..	..	..	gr. xij.
Ol. caryoph.	..	..	..	gtt. ij.
Ext. hyos.	..	..	..	gr. vj.

Ft. pil. vj. i. o. n. s.

I have tried scap, gum, and the usual excipients, but they turn out an unsatisfactory pill.

Yours faithfully,

SOMERSET. (167/68.)

21/11. *Limonis*.—The precipitate is quinine citrate, and it is slightly coloured when fresh infusion is used.

163/21. *D. E. O'Donnell* (Brompton).—The "aqua menthæ" question was fully discussed in THE CHEMIST AND

DRUGGIST, vols. xxxiii. and xxxiv. Peppermint-water is voted by the majority to be the thing.

A Cinchona-mixture.

SIR,—I am most anxious to have an opinion as to what should be the appearance of the prescription as below. I have frequently dispensed it as a muddy mixture, but a customer has had it made up elsewhere as a clear wine-red solution. I have myself sometimes turned it out almost clear, except for the murkiness caused on adding spt. ammon. arom., and after a day this mixture has become quite muddy.

I maintain that spt. ammon. arom. will cause the mixture to be muddy if the tinct. cinchonæ is made with 4 oz. of the red bark to 1 pint proof spirit, as ordered in B. P. But if the tincture is not up to standard, the mixture may be dispensed clear.

Liq. strychnin.	..	..	..	..	℥lxxx.
„ potassæ	..	..	..	..	3ss.
Spt. ammon. ar.	..	..	..	..	3ss.
Æth. chloric.	..	..	..	..	3iss.
Tinct. cinchonæ.	..	..	..	..	3j.
Aque ad	..	..	..	..	3viij.

M. Ft. mist.

DUBLIN. (167/18.)

LEGAL QUERIES.

Consult Alpe's "Handy-book of Medicine-stamp Duty" in regard to patent medicine questions.

General information regarding the laws affecting chemists and druggists is printed in THE CHEMISTS' AND DRUGGISTS' DIARY, 1892, pp. 161-5.

For stamp duties, licences, Customs regulations, &c., see the DIARY, pp. 161-8.

161/51. *Codeia*.—A proprietary medicine containing codeia must bear a "poison" label.

164/23. *B. Strogwitz*.—(1) A pharmacist holding a Russian qualification could not act as a chemist and druggist in this country without passing the Minor examination. The Board of Examiners would most probably not require him to enter for the Preliminary examination, but he would have to produce evidence equivalent to the examination, which the Council of the Pharmaceutical Society would consider in the first instance. (2) In many States of North America the Russian qualification would be accepted. See our issue of September 24. (3) It would be illegal for him to sell poisons and call himself a chemist and druggist, or the like, in any circumstance.

161/50. *Pax Vobiscum*.—(1) The preparations which you name are not scheduled poisons, and an unqualified man may sell them. (2) It is possible that under section 12 of the 1852 Pharmacy Act the Pharmaceutical Society could stop any unqualified person calling his shop a pharmacy. "Dispensary" or "apothecaries' hall," are designations commonly used by such persons. (3) Minor candidates are expected to know the proportion of the active ingredients in compounds.

166/4. *Bleach*.—The risk in using names remotely resembling others that are registered, and for similar articles, is that colourable imitation is easily dropped into. You must assure yourself that you are not on that track. With the name alone we think you are safe.

165/30. *W. E. S.*—A similar question has been answered several times lately. We say that the matter is doubtful until a Court of Justice gives a decision upon it, but see pages 90 and 91 of "Pharmacy and Poison Laws."

238/4. *J. A. D.*—Ether prepared from methylated spirit may legally be used internally.

163/29. *Inquirer*.—The Shop Hours Act applies to the errand-boy if he is under 18. You must not employ him more than seventy-four hours in a week, that period to include meal-times.

169/20. *A. Z.*—(1) It is not necessary to have a lawyer to draw up an apprenticeship indenture (printed forms being obtainable), but if there is any sum of money involved, in the shape of a premium, the proper and business-like way is to get a lawyer to do it. (2) Premiums for indoor situations vary from 25*l.* to 200*l.* for four years. Outdoor apprentices generally pay no premium.

166/8. *Lex*.—Cocaine hydrochlorate, like other poisonous vegetable alkaloids, comes into the first or poison-book part of the poisons schedule.

167/9. *Inquirer*.—The stipulation in regard to Minor candidates is that they shall have been engaged for three years in dispensing medical prescriptions. That does not mean indentures. See our Educational Number, September 17.

167/44. *Pharmacy*.—You may.

167/29. *N. A.*—The sale of seidlitz powders of the same ingredients as the B.P. but of less weight is illegal, unless the fact is expressly stated to the customer, or a label to the same effect used.

238/6. *P. S.*—The hair-restorer is neither a medicine nor a medicament, nor is it recommended for the prevention, cure, or relief of any ailment. It is not chargeable with duty. See Alpe's "Handybook," page 65.

167/46. *F. R. B.*—Messrs. Newbery & Sons publish in their catalogue a list of the best-known medicated wines, distinguishing between those which can only be sold by vendors holding a wine-licence and those which can be sold by unlicensed vendors. The wine you name can only be sold by a licensed dealer.

170/26. *Lassie*.—The proprietors of Clarke's blood-mixture have advertised in THE CHEMIST AND DRUGGIST for some months that that preparation contains no poison; and the proprietor of Owbridge's lung- tonic informs us that "the lung- tonic they now send out does not contain a scheduled poison."

Law and Radix.—We decline to deal with anonymous communications.

MISCELLANEOUS INQUIRIES

Inquirers will please read the "Memoranda for Correspondents."

A list of "Books for Chemists" is given in THE CHEMISTS' AND DRUGGISTS' DIARY, 1892, p. 317.

For all particulars regarding Educational and Examinational matters refer to our issue of September 17, 1892.

Replies to queries are inserted according to the space open in any week, and insertion on any specific date cannot be guaranteed.

Back numbers of our weekly issue, containing formulae, &c., occasionally referred to in answers, can be obtained from the Publisher at 4*d.* each.

112/1. *Strathbrock*.—The Condition-powder for Poultry appears to consist of powdered liquorice (undecorticated), 6 oz.; powdered gentian, capsicum, and fenugreek, of each 1 drachm. Mix, and bring up the colour with a sprinkling of black antimony.

151/20. *Bridgewater*.—Confectioners' Orange-colouring Powder.—The sample which you send is a mixture of aniline orange ii. with common salt, and some sulphate of soda. About 1 part of the dye to 7 parts of the salt.

410/92. *Ambleside*.—White Embrocation for Horses and Cattle.—The following formula approximately represents the composition of the sample which you have sent:—

Eggs	..	..	..	..	..	3
Oil of turpentine	..	..	..	..	..	10 oz.
Spirit	..	..	..	..	..	2 "
Acetic acid	..	..	..	..	..	4 "
Water	..	..	..	..	..	50 "

Rub up the eggs in a large mortar, and to them add 1 oz. of turpentine; mix thoroughly, adding 1 oz. or so of water, and so on turpentine and water alternately until the whole of the turpentine has been used up. Now transfer to a W.Q. bottle and shake well; dilute the acid and spirit with 15 oz. of water, add that little by little, and finally make up to 50 oz. with water.

122/45. *Troubled*.—The tooth-soap is one made by compression, the constituents being chalk, rose-pink, soap, and oil of rose geranium. Better ask Messrs. Bronnley & Co. to match it.

158/50. *R. B.*—Solution of potash is the best "ink" to write with on the blue-dyed paper. It is a little slow compared with ammonia, but the latter is not permanent.

149/63. *Fenugreek*.—The Rabbit and Poultry Food seems to consist of ground cotton-cake, bran, and fenugreek.

151/18. *Impudence*.—The Powder for Washing Children's Hair is powdered stavesacre.

2910/92. *H. R. S.*—The Flavour is a solution of oils of lemongrass and cassia in tincture of tonka bean. We can detect nothing else in it. Perhaps there is a little benzoin.

162/45. *Ovom*.—Colouring of Egg-powder.—Your sample gives the unmistakable reactions of turmeric. The colouring seems to be added as a tincture to the rice-flour, which is then dried, and the tartaric acid and bicarbonate of soda finally added.

101/192.—*Polish*.—The Brown Polish for steelwork (which you say keeps the steel bright at very high temperatures) seems to be a mixture of fine emery with stearin—about 4 of the former to 1 of the latter. No. 2 powder is calcined shells, a commonly used article.

168/35. *Query*.—Washing-cream.—From an examination of your sample we concoct the following formula:—

Yellow soap	..	..	..	..	..	$\frac{1}{2}$ lb.
Turpentine	..	..	..	..	..	8 oz.
Strong solution of ammonia	..	..	..	..	..	1 pint
Water	..	..	..	..	..	1 gallon

Shred the soap and dissolve it in half a gallon of the water by heating. With a pint of this when cold emulsify the turpentine, add the rest, shake well, then the ammonia and the remainder of the water.

165/25. *Rana*.—Medical Preliminary Biology.—The book which you want is the "Text-book of Elementary Biology," by H. J. Campbell, M.D., senior demonstrator of biology in Guy's Hospital. (Swan Sonnenschein, 6*s.*)

108/37, *F. A.*, and 310/92, *J. R. T. (Lancaster)*.—Sorry we can make nothing of your samples.

165/3. *H. S. F. Brown*.—To mend the ether bag make a solution of part of the indiarubber sheeting in carbon bisulphide, warm the bag and the piece of sheeting by dry heat carefully applied, and unite with the solution, immediately pressing in a warm atmosphere. It is exceedingly difficult, even for expert hands, to satisfactorily repair old indiarubber apparatus.

168/28. *T. Lincoy.*—Pomade Hongroise.—The following makes a nice article:—

Powdered white Castile soap	..	..	3½ oz.
Glycerine	..	..	3 "
Mucilage of acacia	..	..	10 "
Water	..	..	6 "
White wax	..	..	9 "
Perfume oils	..	..	1 drachm

Dilute the mucilage with the water, and rub up the soap with the mixture. Shred the wax and place it in a large basin with the glycerine. Add the soap mixture and beat in a water-bath, stirring constantly until perfectly uniform. Then add the oils, and bottle.

168/15. *W. H. Burrell.*—Estimation of Urea.—Allen's nitrometer may be used conveniently for the hypobromite method. The solution of hypobromite is made by adding 1 c.c. of bromine to 10 c.c. of soda solution (2 to 5 of water). Having filled the nitrometer with brine, run into it 5 c.c. of the albumen-free urine, wash the cup with water, and allow the washings also to run in; then allow about 8 c.c. of the hypobromite solution to flow in, close the nitrometer, mix the fluids thoroughly, and after five minutes read off the volume of nitrogen. Calculate the percentage from the factor, 37.1 c.c. of N = 0.1 gramme of urea. We give a list of books on urine-testing in the 1892 DIARY.

168/15. *Hector.*—Frothing Hair-wash.—The following may suit you:—

Carbonate of ammonia	..	..	3ss.
Solution of ammonia	..	..	3iij.
Tincture of quillaia	..	..	5vj.
Bay rum	..	..	3j.
Water to	..	..	3xij.

Mix.

168/7. *J. T.*—Stramonium Asthma-paper:—

				Oz.
Stramonium	..	..	..	1
Henbane	..	..	..	1
Lobelia	..	..	..	1
Nitrate of potash	..	..	..	1
Water	..	..	..	30

Boil down to a pint and strain. While the strained decoction is hot saturate blotting-paper with it.

169/54. *Lux.*—You will see from an advertisement in the forthcoming DIARY that a firm offer assistance in regard to the compilation of such books. We think you will get what you want by addressing them; if not, write to us again.

170/23. *Lux Mundi.*—You should add the potass. carb. to the dry myrrh in making Mist. Ferri. Co. That is where you have acted wrongly.

164/24. *A. P.*—No; expressed oil of almonds.

164/38. *Fyfe* (Kirkcaldy).—You send no name, and the post-mark on your card is dated Edinburgh. It is things like that which necessitate correspondence rules, and our sticking to them.

163/65. *Newton.*—The title which you name is a proprietary one. You will find a formula for a similar preparation in THE CHEMIST AND DRUGGIST, December 7, 1889, page 813.

101/60. *Emperor.*—You will find all about how to buy a microscope and use it in THE CHEMIST AND DRUGGIST, September 19, 1891.

166/21. *Inquirer.*—Give the Gold Labels a coat of a varnish composed of equal parts of Canada balsam and turpentine.

163/9. *X.*—An all-round Indigestion Mixture is a large order. Try the following:—

Glycerin. pepsin..	..	..	3vj.
Acid. hydrochlor. dil.	..	..	3j.
Liq. strychninae.	..	..	℥xxxxvj.
Tr. chloroformi co.	..	..	3iij.
Aq. ad.	..	..	3vj.

M.

Dose : A tablespoonful in half a glassful of water immediately before food.

222/5. *J. A. C.*—To Fasten White Enamel Letters on Glass make a very thin paste of calomel and mucilage. Spread this thinly on the letters and press upon the glass so that as little as possible of the cement is left between the glass and the letters.

162/17. *R. C. S.*—Euo's Fruit Salt:—See page 770.

163/2. *Poor Law Dispenser.*—(1) We do not know. Apply to the Secretary, Board of Trade, Weights and Measures Office, Palace Yard, S.W. (2) Women are admitted to the assistants' examination of the Apothecaries' Society. (3) We should think that the conditions of your appointment do not preclude you tutoring students after your official work is done. We know of dispensers who fill in their time in a similar manner with the knowledge of the guardians.

227/34. *Ignoramus.*—Gray's supplement is worth about 15s. We have known copies to be sold for 10s. 6d., and also a guinea.

227/17. *A. C.*—Graph Composition.—THE CHEMIST AND DRUGGIST, February 13, 1892, page 248.

165/16. *R. O.*—(1) Phenolphthalein is in the Appendix to the Pharmacopœia. See also THE CHEMIST AND DRUGGIST, November 28, 1891, page 774. (2) Liquor Potassæ.

157/20. *G. E. B.*—"Periodate crystals" is a proprietary preparation. The statement that Sir Andrew Clark recommends it is without foundation.

158/57. *Enterprise.*—We should be glad if you would point out wherein the formulæ for concentrated waters are unsatisfactory as compared with proprietary preparations.

166/5. *A. H.*—Lotion for Bruises in Horses.—When the skin is broken the following is a satisfactory application:—

Plumbi acet.	..	..	..	3ss.
Aluminis	..	..	..	3ss.
Acid. boric.	..	..	..	3ss.
Aq. ad	..	..	..	℥j.

Dissolve the alum and boric acid in half the water, and the sugar of lead in the rest. Mix the solutions.

162/61. *Unguenta.*—Dr. Tilbury Fox's Ointment for Acne:—

Ol. cadini	..	..	..	5ss.
Adipis præparat...	..	..	..	3j.

Ft. ung.

164/40. *California.*—There are no books on the subjects that we know of.

159/53. *Anglo-Hibernian.*—The activity of the aloes will be little affected by the potash. The same remark applies to the second question. If an alkali is to destroy the properties of aloes it must be present in at least the same proportion; but, as a matter of fact, carbonates have only a modifying action.

164/46. *E. H. J.*—Chisel and mallet are used for engraving silver and gold.

161/59. *Wam.*—Winter Cream.—The following is a formula with quince mucilage (which is made by boiling 2 oz. of quince-seed in 32 oz. of water down to 16 oz. and straining):—

Glycerine	5j.
Perfume essence	5ij.
Spirit	5vj.
Quince mucilage	5ij.

Add the glycerine to the mucilage, mix, and then add the spirit and perfume (jockey club, white rose, or any other pleasing odour.)

165/51. *N. Field* (Cape Colony).—You will be eligible for the Bell Scholarship Examination in 1895 if you are then a subscribing student of the Society and can show that you have served for three years with a pharmaceutical chemist, or chemist and druggist on the British register, whether in England or in the colonies. You can only be elected a student by passing the Preliminary examination or its equivalent. See our issue of September 17, p. 440.

160/66. *Inquisitive.*—We cannot oblige.

170/49. *Pony.*—The suggestion is ridiculous, and if carried out it would be an offence against the Cruelty to Animals Act.

138/43. *R. W.*—The best method for obtaining Copies of Medallions is by electrotyping. The process is simple, but would occupy too much space to describe sufficiently in these columns. You will find all particulars in "Watt's Electro-metallurgy" (3s. 6d.), along with useful and practical formulæ for the various solutions, and formulæ also for materials suitable for casts both "metallic and otherwise."

157/44. *Shi.*—We have looked through German medical literature of the past few years, but can trace no formulæ of Billroth's or Von Bergmann's for iodoform solution.

158/10. *Ginger.*—(1) Carbolic acid which in the course of two years separates into two layers—one brown and the other milk-white—contains some traces of impurity, and can scarcely be regarded as B.P. Acid containing impurities always become more or less highly-coloured on exposure to light. (2) Composition-powder:—

	Oz.
Bayberry bark	4
Pinus canadensis.. .. .	2
Ginger	2
Cayenne	$\frac{1}{4}$
Cloves.. .. .	$\frac{1}{4}$

All in fine powder, and mixed.

159/46. *A. B. Smith.*—Bisulphide of carbon is used in Australia for driving rabbits out of their holes.

160/5. *Mack.*—The best Gold Ink is made by triturating gold-leaf with a sufficiency of gum-water. There are plenty of good substitutes for pure gold—Dutch-metal powder, and the like.

160/4. *Antipyrin.*—We can give you little information regarding the compounding of Water-colour Paints. The respective dry pigments are well levigated, and made into a paste with equal parts of isinglass and gum mucilages.

157/32. *T. H. R.*—Thanks.

165/63. *C. H.*—Caustic soda is the best and cheapest alkali that you can use for removing grease.

160/55. *Major.*—Chilblain Liniment.—See THE CHEMIST AND DRUGGIST, December 12, 1891, page 862, and many other back numbers.

160/53. *Boston.*—Composition Essence.—Take 1 lb. of composition-powder and macerate in a pint of proof spirit, 10 oz. of water, and 5 oz. of glycerine for a week. Strain and press. Boil the marc in 2 quarts of water containing 2 drachms of carbonate of potash to half the bulk, and when cold add the tincture, 5 oz. of proof spirit, and chloroform-water to 4 pints.

160/57. *R. C. H.*—To ascertain the amount of fat in Superfatted Soaps, shred 100 grains of the sample, and dry at a temperature of 110° C. for two hours. Reduce to fine powder; mix with an equal weight of clean sand, and exhaust with ether by percolation. The percolate on evaporation and drying at 100° C. gives the weight of fat in 100 grains of the sample.

211/12. *Tooth.*—The solution of cocaine used in Tooth-extraction contains $\frac{3}{4}$ grain of the hydrochlorate in 8 minims of water. Half of this is injected into the interior of the root of the tooth, and the rest into the exterior, care being taken to get the needle of the syringe as near the socket as possible, and to allow the solution time for absorption. This time is at least three minutes. If the patient shows signs of cocaine-poisoning, amyl nitrite should be inhaled, and a little brandy swallowed.

216/5. *C. F. (Paris).*—Paste-paints are mixtures of the dry pigments levigated along with boiled linseed-oil and a small percentage of turpentine. You may consult Riffault's treatise on the manufacture of colours, also Spon's "Workshop Receipts," vol. ii. (5s.).

161/7. *Crystals.*—Perhaps your customer means sodium phosphate (a mild laxative) by Pile Crystals. We have not heard of the name before.

167/12. *F. R. E.*—A 3-grain Ergotin Pill is equal to about 40 minims of the official liquid extract—that is, in an average way. We are not surprised that pill-makers have given widely different replies, for the yield of ergotin varies much. What is the average that you get from the replies?

Information Supplied.

The Syrup of Figs you asked about (October 15, 1892, page 598) I have been asked for here. It is said to be a continental preparation, sold in America with label printed in four languages.

Boulogne, October 30.

PROSPER H. MARSDEN.

[The syrup is a proprietary preparation, made by the Caloria Fig Syrup Company.—Ed. C. & D.]

Tooth-paste in Bulk.—We have forwarded to the inquirer the replies received.

Information Wanted.

Replies to the following are requested by subscribers of THE CHEMIST AND DRUGGIST.

190/80. Metal cases for graph composition: name of maker wanted.

190/80. Hand-grenade bottles, also cages for same: names of makers wanted.

167/18. What is "tinct. petrolei"?

168/57. Peak's asthma-cure—where obtainable?

164/42. What is "theodine brine-powder"?

163/38. Name and address of the maker of "Carbo-eucalyptine" sanitary tablets.

158/13. Stoneware ink-bottles—who makes?

Pears' Soap



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Mono Carbonate of Soda	1'90
Sulphate of Soda	trace
Chloride of Sodium	'035
Moisture	'82
Insoluble	nil

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For literature see "The Therapist," Vols. I. and II., published by Aug. Siegle, 30 Lime St., London, E.C.

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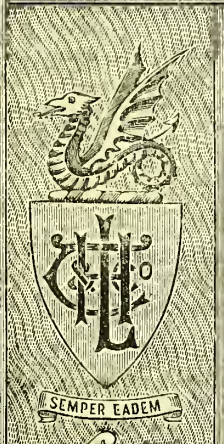
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„ Colocynth. et Hyos., P.B.	...	1/1	9/-
„ Rhæi Co., P.B.	...	8d.	4/3
APERIENT. 105 (Each Pill contains $\frac{1}{2}$ gr. of Calomel)	...	8d.	4/3
106 As No. 105, with 1 gr. Calomel in each Pill	...	8d.	4/6
107 As No. 105, without Calomel	...	8d.	4/3
110 Hospital Pills, each containing $\frac{1}{2}$ gr. of Calomel	...	8d.	4/6
ANTIBILIOUS.			
62 Hydrarg. Pil. gr. i.; Ext. Coloc. Co.; Pil. Rhæi Co. aa. gr. ij.	1/-	...	8/6
262 Podophyllin gr. $\frac{1}{2}$; Ext. Coloc. Co. gr. ij.; Ext. Hyoscy. gr. i.	1/2	...	10/-
COUGH.			
164 Pulv. Ipecac. Co.; Pulv. Gum. Ammon. aa. gr. iss.; Pulv. Scillæ gr. i.; Saponis Hyspan. gr. ss.	7d.	...	5/-
167 Pulv. Ipecac.; Pulv. Scillæ aa. gr. $\frac{3}{4}$; Pulv. Capsici; Pulv. Opii aa. gr. $\frac{1}{2}$; Pulv. Gum. Ammon.; Ext. Conit. aa. gr. i.	8d.	...	5/6
CASTOR OIL.			
289 Rhæi Pulv.; Potass. Sulph. aa. gr. iss.; Pulv. Sapo. Hysp.; Ol. Ricini aa. gr. ss.; Ol. Crotonis gr. $\frac{1}{12}$	6d.	...	4/-
TONIC. 370 (Blaud's Formula)	6d.	...	4/-
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"LITTLE" APERIENT. 458	5d.	...	20/-
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It is also a disease which can never be successfully combated by mere empirical measures; for a careful and exhaustive inquiry into its possible or probable causes is absolutely essential for satisfactory or conscientious treatment.

In most of the ordinary cases correction of any errors in diet will perhaps be sufficient to arrest the vomiting, or at all events to keep it within the usual limits of night and transient "morning sickness" or "tasteless" or "nausea." This may be satisfactorily attained by substituting for the ordinary food some vegetable soup to which a little LIQUOR CARNIS (CAFFYN)* has been added; a cup of MALTO-CARNIS taking the place of the ordinary tea or coffee.

By thus giving the digestive system a day or two's rest, the vomiting may quickly disappear; and by occasionally alternating this treatment with ordinary feeding, the usual "vomiting period" may be comfortably passed.

But there are the more severe or prolonged cases, in which vomiting is violent and persists for some weeks or months, and in which abortion or madness is threatened, and which require special care.

Whatever view may be taken of the pathology, the principle of rational treatment is to diminish the reflex excitability of the vomiting centre, to remove any possible or probable mechanical or local cause—to obtain sleep and to maintain strength.

Having rectified any mal-position of the uterus, relaxation of the abdominal wall, accumulation of fæces, distension of the bladder, or any of the numerous visceral irritations which may be to a

more or less extent responsible for the symptoms, new sedatives, such as Hyoscyamus, Bromides, Chloral Hydrate, Belladonna, Opium, &c., should be re-administered with great caution, so as to increase the "resistance" of the important centres and to produce sleep.

Success in the latter object is dependent to a great extent upon the assimilation of food. For this reason LIQUOR CARNIS (CAFFYN) may be given in one-teaspoonful doses every quarter of an hour, the patient sucking small pieces of ice in the intervals. Should this be retained and the nausea arrested, a wineglassful of clear vegetable soup, to which a dessertspoonful of CAFFYN'S LIQUOR CARNIS has been added, should be administered every hour or two. Subsequently a little cornflour or arrowroot may be given, combined with CAFFYN'S MALTO-CARNIS or LIQUOR CARNIS. Thirst is often very troublesome; and since it is not advisable to administer too much fluid, small quantities of ice and lemon juice will doubtless be found to satisfy this craving. Wine and alcohol must only be given in accordance with the accoucheur's discretion. Later on a cup of MALTO-CARNIS (CAFFYN) occasionally will prove a valuable and pleasant restorative; for, like its predecessor LIQUOR CARNIS, it may be given without the slightest fear of any gastro-intestinal irritation, being rapidly absorbed and proving a most satisfactory stimulant.

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British Medical Journal.

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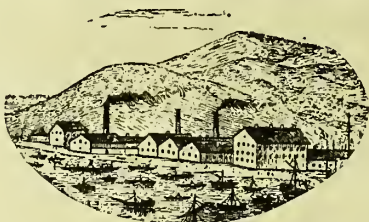
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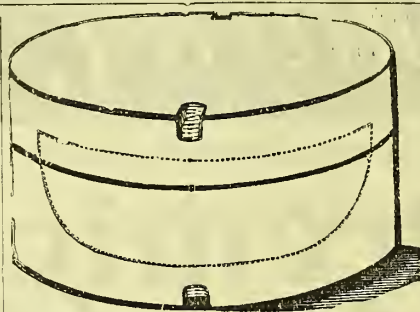
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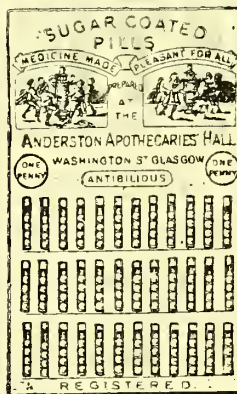
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AGENTS WANTED.—APPLY AT THE
Andersonston Apothecaries' Hall, Washington St., GLASGOW.
Telegraphic Address—"Lilliputian Glasgow."

PETROLEUM JELLY

WHITE, RED AND YELLOW
TRADE MARK
CONFORMS TO ALL REQUIREMENTS OF B.P.

CHEAPER AND EQUAL TO VASELINE, AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASSED.
Tins of all sizes, from 1 to 10 lbs.; Iron or Wood Kegs, $\frac{1}{4}$, $\frac{1}{2}$, and 1 cwt.; Barrels about 3 cwt., &c. Samples and prices on application, stating packages and quantities required, to the Manufacturers—

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Dorothy Dentifrice

3d.

PER
PACKET.

An Ideal Tooth Powder.

Dorothy Dentifrice is most attractively put up, and sells readily at sight. It is being extensively advertised in the best publications of the country. Testimonials have been received by the proprietor from the most eminent members of the Dramatic and Musical Profession including Miss Ellen Terry, Mr. Henry Irving, Miss Fortescue, Madame Albani, &c. It is going off well wherever introduced, giving satisfaction to both the trade and the public. It is a profitable line, and is not out.

2/3 per dozen, 24/- per gross. Show Cards with all parcels.

Full particulars of Agencies will be sent to applicants by the Proprietor,
DOROTHY DENTIFRICE CO., 11 & 13 ST. BRIDE STREET, LONDON, E.C.



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IN
GREAT BRITAIN.

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ELEGANT CRYSTAL
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58

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NUTRITIVE & HAIR SEDATIVE CREAM.

The only preparation for the Hair recommended by leading Physicians for the removal of Scurf, allaying irritation, preventing greyness and baldness, and producing a LUXURANT HEAD OF HAIR.

JOHN A. WALCOTT, M.D., M.R.C.S., says:—"I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the scalp, accumulation of dandruff and loss of hair, in each of which I have freely used it with UNFALLING SUCCESS."

In Bottles to Retail at 1/6, 2/6, and 3/6. Revised Wholesale Prices, 12/6, 20/-, 30/- per doz. Supplied by all Wholesale Sundry Houses,

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Highly recommended by authorities. The only make of perfect purity in all respects.

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BURROUGHS BROS., 66, Basinghall St., LONDON, E.C.

The Chemist and Druggist

SUPPLEMENT

Businesses Wanted.
Businesses for Disposal.
Premises to Let.
Auction Sales.

SATURDAY, DEC. 3, 1892.

Partnerships.
Situations Vacant.
Situations Wanted.
Miscellaneous.

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

PLEASE NOTE.

ADVERTISEMENT for this Supplement must be received at the Office, 42 Cannon Street, E.C., not later than 5 o'clock on Thursday Evenings, for insertion in the current week's issue.

Advertisements must be prepaid. Remittances by post may be made in stamps, or by postal order made payable to "EDWARD HALSE," and crossed MARTIN'S BANK (LIMITED). To ensure prompt attention address all communications endorsed "Supplement," to The PUBLISHER of "THE CHEMIST AND DRUGGIST."

OFFICES: 42 CANNON STREET, LONDON, E.C.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & CO. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—LONDON, W.C.—Good middle-class locality; Retail and Dispensing of good class; returns between £650 and £700; *profits good*; well-fitted shop and good stock; price for the whole about £450; or partnership terms can be arranged.

2.—LONDON.—Good-class locality; Retail and Dispensing Business; returns £600 yearly; well-fitted shop and good stock; valuation terms can be arranged; worth attention.

3.—LONDON, W.—Thickly populated locality; good-class Retail and Family Business; returns over £700 yearly; handsomely-fitted shop and good stock; about £550 required.

4.—LONDON, E.—Manufacturing locality; good-class Dispensing Business, held by vendor many years; returns £1,300 yearly, *with profits considerably above the average*; about £1,200 required; good personal introduction will be given.

5.—LONDON, N.—Main road; 'bus and trams pass the door; good Ready-money Business; returns at present about £500 yearly, *with good profits*; well-fitted shop; good house attached; about £500 required.

6.—EASTERN COUNTIES.—Wanted, in a very old-established good-class Business, a gentleman with about £2,000; adequate income offered for the investment; full particulars on application.

7.—SUSSEX.—Fashionable locality; Retail and Dispensing Business, with good family trade; returns over £800 yearly; well-fitted shop, fairly stocked; terms, small premium, £150, and valuation.

8.—SOUTH OF ENGLAND.—Good unopposed Business; returns about £400 yearly, *with profits above the average*; convenient house, small garden; about £400 required.

9.—WARWICKSHIRE.—Prescribing and Retail Business; held by vendor many years; returns £550; well-fitted shop and good stock; large house with every convenience; price £450.

10.—NORTH OF ENGLAND.—Light Retail and Dispensing Business (unopposed); held by vendor 7 years; returns £550 yearly, *with good profits*; well-fitted shop; about £260 required.

11.—MIDLANDS.—Large manufacturing town; Retail and Dispensing Business; very profitable concern; returns £700; with good proprietaries attached; good house with private entrance; about £480 required.

12.—WEST OF ENGLAND.—Good market town; Mixed Business, including Wines and Spirits, returning over £1,300 yearly; *net profits over £400 yearly*; double-fronted shop; large house and garden; about £1,000 required.

13.—HOME COUNTY.—Old-established Mixed Business; very old-established and worth attention; returns at present about £1,250 yearly; large shop and good warehouse room; very good house, situate in the centre of the town; small premium and valuation only required.

14.—HOME COUNTY.—Good business town; Retail and Dispensing Business; returns about £1,130 last year; *net profits* £450; well-fitted shop and good stock; about £900 required.

Particulars of any of the above will be furnished on application

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country.

Particulars free on application.

Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

MESSRS. ORRIDGE & CO. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital. Full particulars on application.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

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References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

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STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

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CORNWALL.—£1900 returns; good-class Retail, with Wines and Spirits; desirable locality; valuation £1,300 to £1,400; part can remain; illness cause of sale. **LINCOLN.**—Returns £1,100; flourishing market town; good-class Retail, with Wines and Spirits; goodwill £50; stock and fixtures at valuation, about £800. **YORKS.**—£700 returns; good-class old-established Retail in pleasant market town; valuation £600; part can remain. **SUNDERLAND.**—£600 returns; can be doubled with personal attention; price £250. **SUSSEX.**—Dispensing and Light Retail; seaside; returns £530; price £400. **DERBY.**—£500 returns; rare chance for young energetic man; price £250.

MESSRS. BERDOE & CO.

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Established 1870.

VALUATIONS AND TRANSFERS conducted in any part of the United Kingdom. Over 20 years' practical experience.

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Messrs. BERDOE & CO. are in immediate want of genuine Businesses requiring an investment of £500 to £3,000 cash. Clients are waiting with the money. Gentlemen wishing to sell should communicate at once; strict confidence guaranteed. Can refer to many well-known Chemists whose Businesses we have recently sold.

- 1.—**HOME COUNTY.**—Good class Retail, Dispensing, and Prescribing Business; making a clear net profit of £450 a year; same hands 20 years; retiring; small premium and valuation.
- 2.—**SEASIDE (South).**—Old-established first-class Business, requiring from £1,000 to £1,200 to purchase; shop exceptionally fine; stock heavy; no good will required, only valuation.
- 3.—**YORKSHIRE.**—Market town; old-established Retail, Dispensing, and Prescribing Business; returns £800; elegantly-fitted double-fronted shop; good house and garden; scope for increase; valuation only.
- 4.—**WEST OF ENGLAND.**—Unopposed good-class Retail, Dispensing, and Prescribing Business; returns about £500, and making £180 net profit; rent £28; good house and large garden; price £400.
- 5.—**SUFFOLK.**—Unopposed Retail and Prescribing Business; returns £350; net profit £150; good house and garden, low rent; for immediate sale, owner taken larger business; price £150.
- 6.—**SURREY.**—Unopposed Retail and Prescribing Business; under management ever since opened; neglected; well fitted and stocked; rent £30; good house and garden; price £80, or valuation.
- 7.—**LONDON. N.W.**—Light Retail and Dispensing Business in the best and most rapidly increasing suburb; through falling health; returns £800; good house, large garden; price £775.
- 8.—**LONDON. S.E.**—Main market thoroughfare; Retail and Prescribing Business; returns £450; net profit £200; low rent, good house, well-fitted shop; price £350.
- 9.—**CITY.**—Retail and Prescribing Business, making a net profit of over £300 a year, after paying all expenses; price £550; good introduction given; trial allowed.
- 10.—**LONDON. W.**—Retail and Prescribing Business; returns £500; rent £40; good house and garden; corner shop, well fitted and stocked; business is capable of increase; price £350.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

FOR Prompt Disposal, Branch in populous Midland town; main thoroughfare; handsomely fitted shop; valuation about £200. "Beta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO Chemists and Druggists.—A splendid opening for a Chemist in the best part of Moorgate Street (near the Bank); old-established Business, long lease, modern front; sum required £1,000. Apply to A. J. Oliver, Solicitor, 55 Coleman Street, E.C.

TO Chemists contem. lating opening a fresh business.—For Disposal at once, fixtures complete and stock of a large Chemist's Shop, just closed; to be sold at a great sacrifice, about £50 or £60. Apply, Messrs. Alder & Wright, Auctioneers, 4 Chancery Road, Upper Norwood.

£525 Cash.—Midland county town; *bond-fide* old-established Light Retail, Prescribing, and Dispensing; returns over £600; net profit £280; illness cause of sale; low rent, on lease; references required. W. Franks, 81 High Street, Burton-on-Trent.

Messrs. CROCKER & CO.

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.,

Having at the present time a large number of inquiries for good-class Country Businesses, they invite communications from intending vendors. **NO CHARGE IS MADE UNLESS A SALE IS EFFECTED.**

OXFORDSHIRE.—Retail, Prescribing, Dispensing, and Agricultural trade: returns about £2,000; price £800; valuable Agency attached.

NORTH LONDON.—Family and Dispensing; returns £700 under neglected supervision; when properly attended to, they were £1,300; price £650; the stock and fixtures are alone worth more.

EASTERN COUNTIES.—Old-established Country Business in best part of busy market town; returns £1,400; price about £1,200.

KENT.—In charming locality, good-class Country Retail and Dispensing; returns £750; price £550; good house; low rent.

LONDON. N.W.—Light Retail and Dispensing; present hands 25 years; returns £900; price £700; specially recommended.

NO CHARGE TO PURCHASERS.

VALUATIONS A SPECIALITY. TERMS ON APPLICATION.

BUSINESSES FOR DISPOSAL—Continued

TO Chemists and Druggists in the North of England.—For Sale, a small lock-up Pharmacy, nicely fitted; low rent; main thoroughfare; border town, population 1400; stock, fittings and goodwill, £110. Apply, No. 33, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£230.—Retail and Prescribing Business, in a capital position in main thoroughfare, London, S.E.; returning £850 at good prices; net profit per annum about £220; every investigation allowed and fair introduction given. Apply, "Bargain," Office of THE CHEMIST AND DRUGGIST, 42 Cannon E.C.

£80 or valuation.—An unopposed Business, in a rising good-class neighbourhood, about 40 miles out, S.W.; returns £4 a week under management; good house and small garden; low rent; having business in London must sell; can do £10 weekly. "Opportunity," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GOOD-CLASS Retail, Prescribing, and Dispensing, home county; returns last year £750, increasing; shop large, very handsomely fitted and well stocked; of very commanding appearance; best position in the town; to a man of energy and capital it is a chance seldom met with. Address, Meggeson's, Miles Lane, London, E.C.

LIVERPOOL Suburbs, Princes Park district, thickly-populated neighbourhood.—A first-class Retail and Dispensing Business; returns about £400; every opportunity for increase; shop splendidly stocked; price £350; rent low; owner taking country business. "Boulevard Pharmacy," 210 North Hill Street, Princes Road, Liverpool.

LONDON. N.—Good ready-money business, returning £800 and capable of considerable extension; good lease at £100, but £40 let off; best position in main thoroughfare; books for 12 years; vendor retiring sole cause of sale; price £700, and part can remain. Apply, Rowland, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMISTS and Surgeon's; suburb of country town, population 30,000; nicely-fitted pharmacy; marketing street; 8,000 population; no other Chemist and only one Surgeon within quarter mile; good house; rent £32; returns under youth £150; principal could do £500; sacrificed for £100 immediate purchaser; part remain. "Aurantii," 184 Dalston Lane, London.

NORTH WALES (Anglesea).—Prescribing and Dispensing; one of the best agricultural districts in North Wales; good house, commodious premises; low rent; price very moderate; knowledge of Welsh essential; no Chemist within a radius of 4 miles; exceptional opportunity for a young man. Apply, R. C. Griffith, Chemist, Port Dinorwic, near Bangor, N.W.

MIDLAND City (large).—For Sale, old-established genuine Dispensing and Retail Business, with first-class reputation; main thoroughfare; populous district; large and well-fitted shop; stock unexceptionable; rent low; 21 years' lease granted; proprietor leaving city; valuable proprietaries; price £1,200 in use; half may remain on security. Address, 264/4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LANCASHIRE.—Two Businesses; principal shop established 1830, branch 1887; combined takings £1,000, combined rents £50; lease: rates low; Prescribing Dispensing, and Mixed trade; valuation; trial allowed to *bond-fide* purchaser; part money can remain at interest; profits good; prices not out much; plenty room; private house and door. 233/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

THOMAS TOMLINSON & SON, Chemists' Valuers, 9 New Cannon Street, Manchester, have Businesses for disposal in Rochdale, about £500, also £800; Sheffield, about £450; Penrith, about £1,000; Southport, at valuation, about £280; Oldham, at valuation, about £700; also one in same town, £200; must be sold at once; Bolton, about £350; Farsley, about £250; Owston Ferry, about £220; Bradford, at valuation, about £650; Ripon, about £650; Warrington, good-class, about £250; Liverpool, about £200; Bradford, Manchester, about £110; Croydon, about £500; Derby, about £320; Manchester, about £350, or at valuation, and several others. No charge to purchasers.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

WANTED, before Christmas or early in the New Year, a genuine Light Retail and Dispensing Business returning £1,000 to £1,500. Full particulars received in strict confidence by H. T. E., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a good Genuine Business, with nice house and garden, in the Home Counties, and returning about £1,000 a year, and capable of increase; or a Partnership, with view to early succession, would be entertained; capital at command nearly £2,000. Send full details, to "Pharmacist," 28 Masons Hill, Bromley, Kent.

FOR SALE.

CHEMIST'S Shop-fittings, Showcases, and Utensils of all descriptions, now and second-hand.—Chemists commencing, opening branches, or making alterations can be fitted throughout immediately and save 20 per cent. by purchasing from our extensive stock; old fittings purchased or taken in exchange; estimates free. Natali, 40 Gray's Inn Road, Holborn, London.

FOR SALE (retiring from Business), the Freehold premises, together with the fixtures and stock, of a Chemist and local Wholesale Druggist, long established, situate in a most growing town of the North Staffordshire Potteries; good prices are obtained, and unlimited scope for increase; very reasonable price. Address, 253/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO be sold immediately, the fixtures and fittings of four first-class Chemists' Shops, including several ranges of mahogany-fronted drawers, fitted with glass labels; six massive mahogany dispensing-screens with embossed mirror in centre; ten mahogany bent-glass counter-cases, fitted with sliding trays and serving-shelf above; six mahogany counters, fitted with drawers; also a large quantity of wall-cases. To be sold at a vast sacrifice, wanting room. Edwards & Fethergill, Old Haymarket, Liverpool.

By Order of the Trustees for the Debenture-Holders.

CALLINGTON UNITED MINES (LIMITED).
(IN LIQUIDATION.)

THE Receiver for the Debenture-Holders is prepared to Sell by Private Treaty, in one or more Lots, the whole of the following Important Mining Properties, comprising Valuable Arsenic, Tin, Copper, and Lead Mines, situate near Callington (R.S.O.), Cornwall, distant 10 miles from Tavistock, on the Lenden and South-Western Railway, and the same distance from Saltash, on the Great Western Railway.

1. Holmbush Mine.—Clear of water to bottom level—viz., 190 fathoms below adit.

2. Kelly Bray Mine.—Clear of water to 70-fathom level below adit. These properties are held under separate leases, dated the 17th March, 1891, direct from the Duchy of Cornwall, for a term of twenty-one years from the 1st January, 1891, at a rent of £20 per annum and payment of certain royalties.

3. South Kelly Bray Mine.—Not working, and practically a virgin mine. Held under a lease, dated the 28th April, 1882, for twenty-one years from 25th December, 1881, at a rent of £15 and the payment of certain royalties.

4. Redmoor Mine.—Clear of water to bottom level, 125 fathoms below adit. Held under a lease, dated the 28th April, 1882, for a period of twenty-one years from the 25th of December, 1881, at a rent of £30 per annum and the payment of certain royalties.

5. Greenhill Arsenic and Brick Works.—With a complete plant for Arsenic refining, cooperage, stores, &c. This Freehold property, containing some 14 acres, subject, however, to the payment of a small customary rent-charge of £8 5s., comprises:—(A) The Greenhill Arsenic Works, in thorough working order. (B) The Brick Works, with all necessary Machinery. (C) The Reservoir. (D) The Cottages.

6. Six Freehold Cottages and Plot of Building Land, situate close to the Holmbush and Kelly Bray Mine, and within 200 to 300 yards from the Kelly Bray Railway Station.

All the above Mining Properties will be sold ready for immediate working, as they are all freed from water, and mining operations are still being carried on, but on a reduced scale.

They are connected with the Port of Calstock by the Mineral Line of the Plymouth, Devon, and South-Western Junction Railway, which in all probability will be extended to and become part of the London and South-Western Railway System. At Holmbush there are commodious Offices, with an excellent Dwelling-House in communication, and Two Cottages. At Redmoor there is also a Dwelling-House available for the Manager. The Mines produce Tin, Copper, Silver-Lead, and Arsenic.

The Plant and Machinery is all of the most complete character and in excellent condition.

Detailed particulars and an inventory of the Machinery may be had on application to Captain Bennett, Holmbush Mine, Callington (R.S.O.), Cornwall; or Mr. P. A. Latham, 15 St. Helen's Place, Bishopsgate Street London, E.C., or of

WILLIAM THEOBALD, C.A. (Theobald Brothers & Miall),
Receiver for Debenture-Holders,
23 St. Swinburn's Lane, London, E.C.

PARTNERSHIPS.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

PARTNER, with £150, wanted at once; £2 per week guaranteed, which with energy could be doubled; to a young, energetic man with small capital this is the chance of a lifetime; business, situate in pleasant London suburb, would be sold. Apply, O. C. Kent, Esq., Solicitor, 35 Bucklersbury, E.C.

PARTNER (qualified or not), with £150 to £200, to extend Chemist, Dentist, and Aerated-water Business and Wholesale in good market town and good neighbourhood; prominent position; large shop and premises; will meet applicant and give fullest particulars. "Unitas," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

LEEDS (Briggate).—To Let, in the very centre of this populous town, Stockrooms, from £1 per month; free from taxes. Further particulars, write Mosley, Rent-Collector, 6 Wormald Row.

TO Let, handsome and commodious Shops, with stores, stabling, &c.; capital opening for good Chemist; near new station about to be built; increasing neighbourhood. Apply, J. W. Lucas, 2 Petra Place, Bournemouth.

A COMMANDING Shop and House, with good living-rooms; capital position in main road; premium for Fittings and Stock (Chemist and Druggist), £110; rent £65 per annum on agreement, 3 years, or £70 per annum on lease. J. B. Bunch, Estate Agent, 360 Mare Street, Hackney, N.E.

SHOPS.—West Hampstead, West End Lane (corner of Dennington Park Road); now being finished; splendid opportunities for a Chemist, &c.; also fine Corner Shops and premises; the best position in this first-class residential neighbourhood, and close to three railway stations. Apply to Foreman, on the premises; or to Mr. George Neal, 42 Kingsley Road, Kilburn, N.W.

SALE BY TENDER.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TENDER FOR DRUGGIST'S FITTINGS, &c.

FOR SALE by Tender, the complete Fixtures and Plant of a first-class Chemist's Shop, at 17 Rendezvous Street, Folkestone.

The principal items are:—
Dispensing Screen.

1 Large Upright Showcases, mahogany.

1 Toothbrush Showcase, fig. 2 Maw.

Nest of Drawers, 14-ft. run, with glass knobs and labels, as Maw's fig. 1, with Lockers under.

A Mahogany Window-enclosure, 18 ft. long, 3 ft. 4 in. high, and 2 ft. deep, with figured-glass doors and Lockers under.

3 Show Carboys, 35 in. high, pear-shape, fig. 1 Maw, with stands.

3 " " " 20 in. " "

2 Specie-jars, with stands, figs. 1 and 2 Maw. " "

About 300 1-lb. and 2-lb. gold-labelled Bottles.

About 3 doz. 4-lb. Blue Jars.

Tenders to be sent in not later than December 7 next, and the whole to be cleared by December 24 next.

The Vendors will accept Tenders for the whole or any portion of the above. Reasonable offers will not be refused.

Applications for view, and full particulars to be made to the undersigned, to whom Tenders must be addressed.

SMITH & ATKINSON, Solicitors,
12 Alexandra Gardens, Folkestone.

APPRENTICESHIPS.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

APPRENTICE in first-class Dispensing and Retail business; premium required. "Pharmacist," 48 High Street, Tuckridge Wells.

APPRENTICE.—Chemist wishes to Apprentice his son (17) in good ready-money business in large Midland town; passed Prelim. Charles, 27 High Street, Worcester.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

WANTED, good Junior, about 22; qualified preferred. Apply to J. Ohlwell, 452 Oxford Street, W.

WANTED, at once, a good Junior. Apply, stating full particulars, to F. Cole, Chemist, Stratford-on-Avon.

MESSRS. J. & H. MATHEWS, 1 Queen's Gardens, Hyde Park, W., require a thoroughly competent Assistant, as Senior.

AN Improver or Junior in a Dispensing and General Retail business; abstainer preferred. Wilson & Botwood, Dartford, Kent.

IMMEDIATE.—Junior, in good Family and Agricultural business; indoors. Apply, with full particulars, to M. Baker, Nuneaton.

WANTED, immediately, an experienced qualified Assistant. Apply, stating usual particulars, H., The Poplars, Sunderland.

J. KENN ROBERTS, Chemist, St. Helen's Pharmacy, Swansea, requires a Junior Assistant, or an Apprentice who has passed Preliminary examination.

JUNIOR; good-class Retail, Dispensing, and Prescribing business; a comfortable situation, with time for study. Blakemore, Obemist, Smethwick, Birmingham.

IMMEDIATELY, or after Christmas, a smart, energetic Assistant (qualified) for branch; one used to cash business preferred. Apply, W. H. Hooper, 59 High Street, Peckham, S.E.

IMPROVER, immediately, in good Retail and Dispensing business; state age, height, and salary required, enclosing photo if convenient; 4 kept. E. H. Croydon, Newcastle, Staffordshire.

INVOICE Clerk wanted; must have experience and thorough knowledge of the Drug and Patent Medicine trade. Apply, stating salary required, &c., to Goodall, Backhouse & Co., Leeds.

JUNIOR Assistant wanted, early in January, for General Country business; must have good references. Apply, stating age, height, experience, and salary required, to Howorth & Parkin, Chemists, Doncaster.

IMPROVER or Junior, at once, in Dispensing and Light Retail, where 2 are kept; just out of apprenticeship not objected to; must have good reference. 1 King's College Road, Adelaide Road, South Hampstead, N.W.

WANTED, by the end of December, an Assistant, aged about 22 (with Minor qualification preferred), well used to Dispensing. Send full particulars, enclosing photo (to be returned), to E. Silk, Teignmouth, South Devon.

IMMEDIATELY (outdoors), qualified Assistant, not under 25 years of age; a preference will be given to one with a knowledge of Homoeopathic Pharmacy. Please state age, height, salary required, to E. Matcham, Chemist, Ipswich.

WANTED, Assistant or good Junior (outdoors); must be energetic and well up in General Retail. Apply, personally if possible, or send full particulars of experience, salary required, &c., to John Hope, Chemist, Deansgate, Manchester.

ASSISTANT (indoors), for good Country Retail and Dispensing; good Counterman, and obliging. Apply, stating age, salary, experience, height, and enclosing carte (to be returned), to John Gilling, Pharmaceutical Chemist, Saffron Walden.

WANTED, an Improver in a large first-class country business; must have passed Preliminary examination, and be of gentlemanly manners and address. Apply by letter, stating age, height, and full particulars, to S. S., c/o Messrs. Hodgkinson & Co., Upper Whitecross St., E.C.

WANTED, a competent Assistant with Minor qualification; also Junior (outdoors); hours are from 9 A.M. to 9.15 P.M., except Wednesdays, to 5 P.M., and Saturdays 10.30 P.M. Apply, stating full particulars, D. P. Roberts, Drug and Chemical Store, North End Croydon.

ASSISTANT; aged about 24; 2 kept; Minor if good business man, well up in Dispensing and Prescribing, and can Extract; in a town, agricultural district; good character from last employer only essential. Address, James, Harker, Stagg & Morgan, Laurence Pountney Lane, London.

ASSISTANT; early in January; Minor (indoors); not over 24 years; accustomed to good-class Country business; quick and accurate Dispenser, writing good hand; 2 Assistants kept. Apply, stating age, height, experience, salary, and enclose photo, to John Rae, Chemist, Newmarket.

JUNIOR Assistant, about December 10 (indoors); aged 20 or 21; accustomed to a good Dispensing, business, and of steady habits. Personal application preferred, or if by letter, enclose photo (to be returned), stating age, height, and salary required, to H. Taylor, 39 Leabury Road, Bayswater, W.

TRAVELLERS on Commission wanted, calling upon Chemists, Grocers, Stores, &c., to push the sale of Cod Liver Oil, Glycerine, Castor Oil, &c., in bottles and in bulk. "Traveller," 32 Great St. Helens, London, E.C.

REQUIRED, immediately, an outdoor qualified Assistant, for City Business; moderate hours and no Sunday duty; must be smart, gentlemanly, and capable. Apply, by letter, stating age, height, experience, salary required, and enclose photo, to Mr. F. Weston, 52 Upper Mall, Ravenscourt Park, W.

INVOICE Clerk wanted for abroad; must have some knowledge of the Drug Trade, and with a knowledge of Bookkeeping preferred; 3 years' engagement, and passage paid out; must be healthy and unmarried. Apply, stating age and full particulars, to R., c/o Warner Bros., 131 Finsbury Pavement, E.C.

TO Chemists' Assistants.—Wanted, as Manager for small works in the country, a smart man who would be willing to give short time in London to learn business and machinery used; an improving permanent situation. Apply by letter only, stating age, experience, &c., to "Works," 258 South Lambeth Road, London, S.W.

A COMPETENT Assistant wanted in a select business at the West-end of London; a gentleman about 23 or 24; good references and good handwriting most indispensable. Apply, personally or by letter (personally after 11.30 A.M. preferred), to John Taylor, Chemist, 13 Baker Street, Portman Square, London, W.

PARIS.—For a first-class business, where 6 are kept, a thoroughly competent Assistant seeking a permanency, of irrefragable character; must be good Salesman, tall, and conversant with the French language; liberal salary (outdoors); need not be qualified. Apply in person, or by letter (enclosing photo), to Messrs. Evans & Lesclier, 60 Bartholomew Close, for particulars.

ASSISTANT wanted at once; must be a good Dispenser and pushing Salesman; indoors, and qualified preferred, but otherwise entertained; Sunday duty every other from 6 P.M.; half holiday weekly, and all Bank holidays, &c. Apply personally if possible, or send full particulars and photo, to Goodchild's, Drug Stores, Harlesden, N.W.

IMMEDIATELY.—Senior (indoors); must be qualified to take sole charge (in absence of proprietor) of a large West-end Dispensing and Drug Store; 9 assistants kept; suitable hand, with good references and seeking permanency, will be liberally treated. Apply, stating full particulars, to L., Messrs. Maw, Son & Thompson, Aldersgate Street, E.C.

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WHOLESALE.—Office or Warehouse; aged 25. W. G. Hearn, Reanill, Surrey.

MANAGER or Assistant; 27; Minor; experienced. A., 19 Nottingham Road, Mansfield.

MANAGER or Senior; experienced; good business man. M., 217 Milkwood Road, S.E.

LOCUM-TENENS or Branch Manager; good references. "Greenlap," 32 Laurel Grove, Penze.

JUNIOR (21); good experience; disengaged; London. James, 128 Westminster Bridge Road.

MANAGER (Branch) or Senior; single; 32; abstainer; qualified. 15 Grafton Street, Hyde.

JUNIOR (20); 4½ years in brisk business; disengaged. Brownlow, Saxby, Melton Mowbray.

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ASSISTANT (21½); London preferred; best references. Nowell, Palace Road, East Molesey, S.W.

MANCHESTER.—Evening employment, commence January. J. W., c/o Mr. Hiscock, Chemist, Coventry.

ASSISTANT (23); experienced; good references; unqualified. 9 Harleyford Road, Kennington Oval.

LOCUM-TENENS or permanent; qualified; varied experience. "Zymine," 2 Pixholme Grove, Dorking.

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QUALIFIED Assistant; disengaged; highest references; London preferred. B. H., 51 Ovington Street.

JUNIOR—In or near London; 21st year; 5 ft. 8 in.; good appearance. H. L., White House, Clay Hill, Enfield.

ASSISTANT, aged 24; Minor; tall; London (W.) and Provincial experience; South Coast. N., 30 Grove Road, Eastbourne.

SITUATION wanted; aged 24; thoroughly conversant with Patents, Sundries, &c. C. W., 106 Loughborough Road, S.W.

JUNIOR (21) desires engagement in South; 5 ft. 6 in.; over 4 years' experience. A. Clark, 8 Holburn Street, Aberdeen.

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MANAGER (outdoors, or reside on); qualified; disengaged. 105/15, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LOCUM-TENENS or Branch Manager; Family, Mixed, or Agricultural business. P. D. S., 6 Thornton Square, Postergate, Hull.

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AS Junior, in good-class business; salary not so much an object as opportunities for improvement. N. Z., c/o S. M. & Son & Thompson, Aldersgate Street, E.C.

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PHARMACEUTICAL Chemist, experienced, wishes Manager's or Senior's position; highest references. 234/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

SITUATION wanted as Assistant; aged 27; good all-round experience; Stores preferred; unqualified. Address, F., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, situation as Traveller, experienced, for large Wholesale Druggists or Sundrymen. Address, W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; 5 years' experience, good Retail and Dispensing; London preferred; disengaged; good reference. Full particulars to Owen, 1 Oxford Terrace, Churen Road, Willesden, N.W.

ASSISTANT; 13 years' experience (10 in Ireland and 3 in England); Prescriber; good Counter hand; 7 years in last situation in Dublin, disengaged. "Sulphonal," 7 Lennox Street, Dublin.

ASSISTANT; Retail or Wholesale; 6 years' London Retail experience; unqualified; good knowledge veterinary medicines; tall; aged 21½; disengaged. "Cascara," c/o Barrett, Stationers, 8 Duke Street Mansions, Grosvenor Square, London.

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BRANCH MANAGER (registered); thoroughly conversant with all departments. P., 81 Mallinson Road, Clapham Junction.

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YOUNG man wants situation as Assistant; country and town experience. 246/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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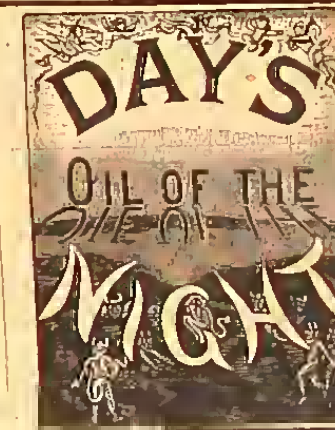
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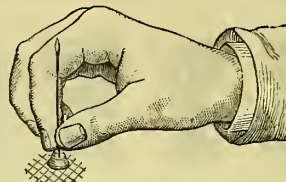
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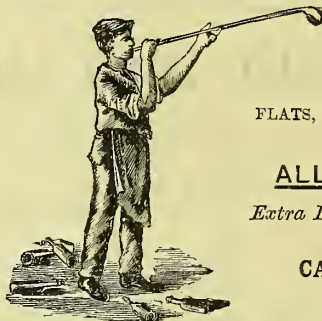
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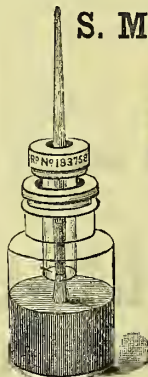
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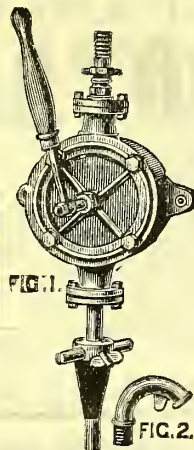
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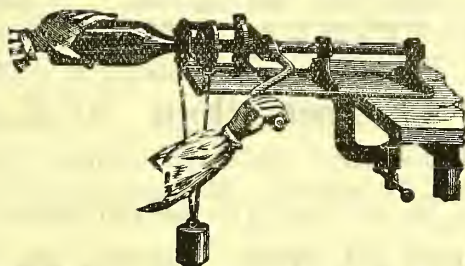
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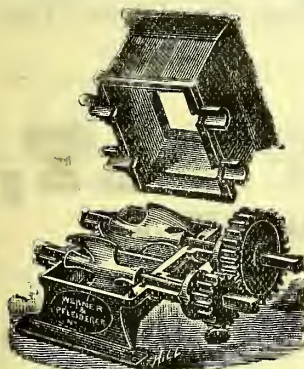
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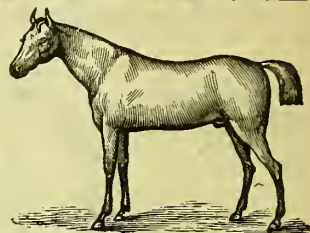
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HANDBILLS, WITH NAME & ADDRESS, SUPPLIED GRATIS.

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Equal to and Cheaper than VASELINE.

FOR MEDICAL AND PHARMACEUTICAL PURPOSES.

White, Yellow, Veterinary, and Waterproof. All kinds put up in 1-lb., 5-lb., 7-lb., 14-lb., 28-lb., and 56-lb. Patent Tins, and in 300-lb. Barrels.

Pure Castor Oil, Cod Liver Oil, White Mineral Oil, Best Eating Olive Oil, Pale and Crude Carbolic Acid, Carbolic Powders, Sheep Dip, Benzine 50 per cent. and 90 per cent., Crude and Rectified Spirits of Tar, Stockholm Tar, Camphor Ice, Carbon Candles.

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THE NEW AND POPULAR DISINFECTING POWDER.

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THE ANNUAL WINTER NUMBER

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PETROLINA
MANUFACTURED IN AMERICA.
The best,
The purest
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Petroleum Jelly
Supplied by all
Wholesale. In Cans of 3 cwt.
In Kegs of 1 cwt., $\frac{3}{4}$ cwt., and $\frac{1}{2}$ cwt.
In Tins of 14 lbs., 5 lbs., and 1 lb.
In bottles (without Labels) of 2 oz. and 4 oz.

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DEUTSCHE GOLD- UND SILBER- SCHEIDE-ANSTALT,

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FOR PHARMACEUTICAL, PHOTOGRAPHIC, AND
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Universally adopted by the Medical Profession for
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For External and Internal Irritation of every kind.

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For Public Speakers, Actors, and Singers.
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WHITE FLINT GLASS, Handsomely Cut, 4 Sizes, Retail	6d.	1/6,	2/-,	2/6
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MARVELLOUS SUCCESS.

SALE STILL INCREASING.

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GOLD MEDAL, 1889.**

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3d. Size, in Boxes containing	3 dozen	6s. 0d. per box	} net
6d. " "	1 "	3s. 6d. "	
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The success of Lazell Dalley's 6d. and 1s. Sachets has been almost unprecedented. I have sold nearly 1,000 dozen within six months, and the sale is still increasing; when goods sell like this it is a proof that they are appreciated by the public.

Price 6d., 4s. 6d. dozen; 1s., 8/6 dozen; 2s., 16s. per dozen.

OF ALL THE WHOLESALE HOUSES, OR FROM THE IMPORTER,

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GOLD MEDAL JAMAICA EXHIBITION.

A PURE AND PERFECT ARTICLE FOR
Teeth, Gums, and Breath.



Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs, and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The POPULAR DENTIFRICE, which Sells at Sight,
Handsomely put up in Show-cases, as here shown. Printed
in Twelve Colours. An ornament to any window.
Price 7/6 per dozen, of all Wholesale Houses.



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Proprietor of "Bunter's Nerve," "Dentine,"
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Pure Lard ... /11 lb.
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Mutton Suet ... /9 ,,
Neatsfoot Oil ... 1/6 ,,
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Violet Powder /10 lb.
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Tooth Powder 3/6 ,,
Camphor Rolls 3/3 ,,
Pomades ... 3/6 ,,
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Soft Soap, B.P. /8 lb.
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SPECIALITY OF
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DISTILLERS AND EXPORTERS,
KIZANLIK, BULGARIA.

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Floral Extract, 3/6, 5/-,
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Egg Julep, 2/-, 4/-
CONCENTRATED
Egg Julep, 2/6,
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EUXURON,
1/6.
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Stimulating Lotion, 5/-,
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Astringent and Tonic
Lotion, 5/-, 10/6.
Quinine and Arnica
Hair Wash, 3/6,
5/-, 10/6, 21/-
Arnica Wash,
3/6, 5/-,
10/6.
&c.

EUCHRISMA.
Combines in one clear Fluid every valuable
Component both of a Hair Grease and Wash,
3/6, 5/-, 10/6, 21/-.

EAU RACINE.
For renewing the original colour of Grey Hair;
superior to all other Restorers, being perfectly
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An elegant Preparation for
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Price 2/6, 3/6, 5/-, 10/6, 21/-.

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H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT)

PRICE ONE SHILLING.

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THE FIRM of MARIA CLEMENTINE MARTIN,
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Have been Awarded PRIZE MEDALS for their Celebrated

EAU DE COLOGNE

AT THE FOLLOWING EXHIBITIONS, VIZ:—

LONDON, 1851. RHENISH PROVINCES, 1852. NEW YORK, 1853.
PARIS, 1855. LONDON, 1862.
VIENNA, 1873. SYDNEY, 1879. MELBOURNE, 1880.

Facsimiles of Prize Medals Awarded at London Exhibitions, 1851 & 1862,
appear on Label of each Bottle. Without such, None are Genuine.

BEWARE OF IMITATIONS!!

EAU DE COLOGNE of the “**NUN**” (so-called), manufactured by any firm
other than the above, is spurious, and an infringement of registered proprietary rights.

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	Duty Paid, Net.	In Bond.		Duty Paid, Net.	In Bond
No. 1.—Half Shorts.....	8/6	5/6	No. 4.—Long Green Flasks.....	16/-	11/-
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Small Cases assorted to order (of not less than £3 value in bond) delivered free freight, less 7½ per cent. discount.

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HAND-PICKED GUM ARABIC.

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33 EUSTON ROAD, LONDON.

BURN'S EMBROCATION

The favourite rubbing for Athletes, Cyclists, and Sportsmen.

1/1¹/₂, 2/9, and 4/6; 10/ 24/, and 40/- per dozen net.

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H. BURN, 7 to 9 Gresham St., LONDON, E.C.

1 doz. 1/1¹/₂ sent carriage paid in United Kingdom for P.O. 10/.

PROFITABLE LINES.

"SWEET SOLID PERFUMES" (Six Odours).

CHILBLAIN LINIMENT (Solid)—Cleanly, Safe, and Certain.

BROOKS'S "SANOSCENT"—A Disinfectant and Moth Killer.

BROOKS'S FLORAL TABLET renders the Skin Soft and White.

All above Retail 2d. each; Trade, 12/- gross, which may be assorted. Half-gross Carriage Paid. Well got-up and very showy.

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From English Lavender
Flowers, and most choice
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176 & 177 STRAND, LONDON.

Established 1839.

Wholesale and Shipping Terms on Application.

**Lavender
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**BERNARD-
ESCOFFIER FILS,
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FOR
Oil of Almonds,
Perfumed Waters,
Lavenders, and all
Essential Oils.

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Importer of

MUSK, CIVET,

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and every

ESSENTIAL OIL.

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CHEAPEST SELLERS IN THE MARKET.

ALSO CHEMICALS, DRUGS, AND OILS.

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THE "MORSTADT" **Cachets**

Are the most digestible, flexible, and elegant Cachets in the market, and are fast replacing all competitors. The Cachets are made to hold from 5 to 18¹/₂ grains Quinine or Salicylic Acid.

"MORSTADT" CACHET CLOSING APPARATUS, to easily, cleanly, and speedily close 12 Cachets at one operation, from 12s. to 30s.

SMALL APPARATUS, to fill and close 1 Cachet at a time, 2s. 6d. each.

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ELKANAH NATALI, SHOPFITTER and GLASS SHOW-CASE MAKER.

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HUDSON'S HALF-MINUTE THERMOMETER,

Inland Post Free, 3/6.

CLINICAL THERMOMETERS IN CASES

25/- per dozen. Trade Discount.

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PUREST CHLOROFORM

Guaranteed free from all injurious impurities. The
Purest in the World.

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In 40-gallon returnable iron casks, pure tinned, with screw bungs, interchangeable brass taps and spanners for opening. Farine, Dextrine, Glucose, Alcohol absolut, Fusel Oil, Pear Oil, Lime-Soda-Lead-Acetates, Verdigris, Acetic Acid, Wood Naphtha, Charcoal, Ammonia liquid 880-900, anhydrous Sodium Sulphide, Bromides, Iodides, Chloralhydrate, Boracic Acid Sulphate of Copper, Permanganate of Potash, Ol. Caryophyll., Mentha. Pip., Pini, Juniperi.

HUGO LORENZ, 7, 8 Idol Lane, LONDON, E.C.

See "Chemist and Druggist," July 30, 1892, page 110.

ESTABLISHED 1835.

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Best Mechanical work from impressions or models. Care and promptitude may be relied on. Moderate charges, inclusive of materials.

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adjoining Royal Mint, London.

The above is the only Address.

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MANUFACTURERS OF PATENT

GOUT CURE

(For Outward Application Only).

In Bottles, 1s. 1¹/₂d., 2s. 9d., and 4s. 6d. Wholesale and Export.

114 JAMAICA ROAD, LONDON, E.

Contractors to H. M. Government and the Government of India.

Fletcher's Pino-Phenol Fluid Disinfectant.
Fletcher's Pale Carbolic Acid. 97-99 per cent.
Fletcher's Famous Fluid Sheep Dip.
40-GALLON CASKS AT SPECIAL RATES.
Fletcher's Carbolic Powders. 10 per cent. and 15 per cent.
* Before buying elsewhere write for prices and samples.

FLETCHER BROTHERS & CO., CRIMSBY, ENGLAND.

NICHOLL'S BLOOD PILLS.

1/1½ 2/9 4/6

Wholesale of Messrs. NEWBERRY & SON, LYNCH & CO., BARCLAY & SONS,
EDWARDS & SON, SANGER & SONS, HOVEDEN & SONS, London; Messrs.
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NICHOLL'S MEDICAL HALL, 25 HIGH STREET, BELFAST.

Bromley's Gout & Rheumatic Pills

FREE Printing of Chemists' own Bills.

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Established 1807.

WILL CURE.

CHEAPEST.

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Not Sold under

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GOUT and RHEUMATIC PILLS

Are the safest and most effectual remedy advertised for

GOUT, RHEUMATISM, AND ALL MUSCULAR PAINS.

GEORGE EADE, 72 GOSWELL RD., E.C.

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DR. MACK'S COUGH ELIXIR.

We have analysed a sample of Dr. MACK'S COUGH ELIXIR, and found that it does not contain any poisonous ingredient, nor any other substance that in our opinion would render the preparation liable to be defined and labelled as *Poison*.

63 Queen Victoria St., London, E.C. H. HELBIG Analytical and
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Price per doz., 1-oz. size, 10/-; ditto, 3-oz. size, 24/-.

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GEORGE HAYNES & CO.

Hampstead Cotton Mills, Stockport,

MANUFACTURERS OF

BLEACHED & ABSORBENT COTTON WOOLS

GREY WOOL, COLOURED WOOLS, & JEWELLERS' SHEETS.

TWO GOLD MEDALS, TWO SILVER MEDALS, AND DIPLOMA OF HONOUR.

The Highest Awards given to any Cotton Wool Manufacturers.

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BRACHER'S

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"DESIDERATUM" MIXERS.



See large Advertisement, page 51, November 12

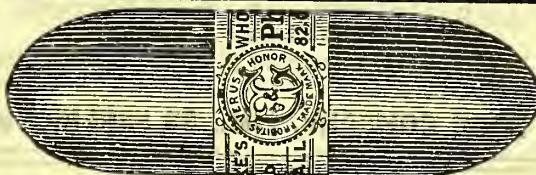
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WHOLESALE DRUGGISTS,

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QUOTATIONS & SAMPLES FREE ON APPLICATION



GABRIEL & TROKE'S GELATINE CAPSULED HORSEBALLS

Alterative, Condition, Cordial, Cough,
Diuretic, Fever, Physic, Worm, Quinine
Tonic Balls (Registered 61,291).

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BRIGHTENS FURNITURE WITH LITTLE LABOUR.

In Tins—1d., 7/- gross. Stone Bottles—1d., 8/- gross; 3d., 2/- dozen;
6d., 4/- dozen; 1s., 7/- dozen. It is sure to please and increase your trade.
Every Chemist should send for Sample order, 6 dozen assorted as required,
Carriage Paid, P.O.O. or Cheque, payable to

FLESHER RAYBOULD, REFORM WORKS, DUDLEY.



E. H. THIELLAY'S (Registered 1867)

MOUSQUETAIRE

A bright Fixing Liquid for the special training of the
MOUSTACHE. Invaluable to Medical Men, repelling
infectious miasma from the respiration. In Cases, with
Brush, Pom.-Hongroise, &c., at 2/-, 3/6, 5/-, 7/6, &c.
Most successful Novelty, 2/- sample post free 15 stamps.
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(SHOW ROOMS AT CHARING CROSS HOTEL.) [1]

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KREAT-HALVIVA.

MALARIA, INFLUENZA, FEVER,

INDIGESTION, SEA-SICKNESS.

For sale at 2/9 a Bottle. Agents—All Wholesale Houses in England—
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EUCALYPTUS OIL.

GENUINE AUSTRALIAN OIL, pure, bright, and of a pale straw colour.

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21 MINCING LANE, LONDON, E.C.

ORANGE WINE

(VIN. AURANT, P.B.).

Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate.
In casks, 13 gallons to 140 gallons; small casks, 3s. 9d. per gallon, carriage allowed
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bottles included. Casks and cases extra, and returnable.

Sample on application.

Special quotations to large buyers.

DURRANT & CO., Railway St., HERTFORD.

NEW CROP FIRST EXTRACT

LEMON OIL,

Absolutely pure. Nothing finer imported.

5/9 per lb. c.i.f. Hull, London, or Liverpool, delivered as required up
to December, 1893.

MARK LEWIG, 23 Old Corn Exchange, MANCHESTER, and
in LIVERPOOL and LONDON.

DIRECT AGENT FOR LARGEST CONTINENTAL HOUSES.

MRS. WINSLOW'S SOOTHING SYRUP

FOR CHILDREN TEETHING,

Greatly facilitates the process of Teething, by softening the gums, reducing all inflammation; will allay ALL PAIN and spasmodic action, and is

SURE TO REGULATE THE BOWELS.


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THE FUTURE OF

EUCALYPTUS OIL.

The following is a striking **CONFIRMATION** of the opinion of Dr. CURGENVEN quoted by us in last week's Advertisement:—

Professor CHARTERIS (Glasgow University), in his Address delivered to the Pharmaceutical Society of Great Britain (North British Branch) at Edinburgh on November 10, 1892, is reported to have said:—"In the June number of Helbing's *Pharmacological Record* attention is drawn to the desirability of having a standard oleum eucalypti based 'upon the percentage of crystallisable eucalyptol, which is undoubtedly the medicinally active constituent, and, further, on the absence of volatile aldehydic compounds which we believe give rise to irritation of the mucous membranes.' His suggestions as to the characters and tests of oleum eucalypti should, I consider, **be incorporated in the British Pharmacopœia**, for there are for sale in retail stores eucalyptus oils of no medicinal value or possessing very irritating properties in flavour and odour."

H. HELBING, Esq., F.C.S. (Analytical Chemist, and author of "Modern Materia Medica"), in the concluding paragraph of his *Pharmacological Record*, No. X., containing full particulars of an exhaustive examination of the Tasmanian Eucalyptus Oil Co.'s "Platypus Brand," in conjunction with **Dr. PASSMORE**, says:—"This Oil is a product which **leaves nothing to be desired** as an Eucalyptus Oil for use in medicine. Not only is it rich in Eucalyptol and free from bodies that irritate the mucous membrane and give rise to coughing, but the oil is most carefully distilled, of constant composition, most agreeable in aroma, and **especially suited for prescription** by physicians who desire a really genuine and active Oil of Eucalyptus."

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